SHARP CORPORATION

Osaka, Japan

Printed in Japan
在日本印刷
TINS-3973GEZZ

DV-L88W

OPERATION MANUAL 使用說明書

SHARP

- This Operation Manual explains the operation for the above model which is available for two different areas listed below. Please make sure to carefully read the instructions for your particular area.
  1. Southeast Asia: Region Number 3
  2. Australia and New Zealand: Region Number 4
- 本使用說明書對上述型號的數碼影碟機的操作進行說明。該型號的數碼影碟機可在下述兩個地區買到。請仔細閱讀確認有關您所在地區的內容說明。
  1. 東南亞：區域號 3
  2. 澳洲和紐西蘭：區域號 4

ENGLISH ..... GB 1 – GB 116
中　　文 ..... C 1 – C 116

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ENGLISH

OPERATION MANUAL

About This Manual

- All mentions of “the Player” refer to the DV-L88W Portable DVD Video Player.
- All mentions of “the Remote” refer to the remote control unit.
- The following table describes the icons used in this Operation Manual.

Icon	Meaning	Icon	Meaning
	GENERAL INFORMATION		OTHER INFORMATION
	Quick Start Guide		Tips and Hints for easier operation
	SETTING UP procedure	DVD	Functions for DVD
	BASIC OPERATIONS	VIDEO CD	Functions for VIDEO CD
	SPECIAL FUNCTIONS	CD	Functions for Audio CD

Important!

Be sure to read this Operation Manual carefully before using the Player for the first time, and keep it on hand for future reference when you experience operational problems.

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SAFETY INFORMATION

Note:
This Player can be used only where the power supply is AC 110V-240V, 50/60Hz. It cannot be used elsewhere.

CAUTION:

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

AS THE LASER BEAM USED IN THIS PLAYER IS HARMFUL TO THE EYES, DO NOT ATTEMPT TO DISASSEMBLE THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PLAYER TO RAIN OR MOISTURE.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

Laser Diode Properties	
for DVD disc Play	**for CD, Video CD disc Play**
Material: AlGaInP	**Material: AlGaAs**
Wave length: 650 nm	**Wave length: 780 nm**
Emission duration: Continuous	**Emission duration: Continuous**
Laser output: Max. 0.7 mW	**Laser output: Max. 0.7 mW**

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- This Player is classified as a CLASS 1 LASER product.
- “CLASS 1 LASER PRODUCT” label is located at the bottom of the Player.
- The laser caution labels are located at the bottom of the Player and printed in the disc compartment.
- This product contains a low power laser device.
  To ensure continued safety do not remove any cover or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.

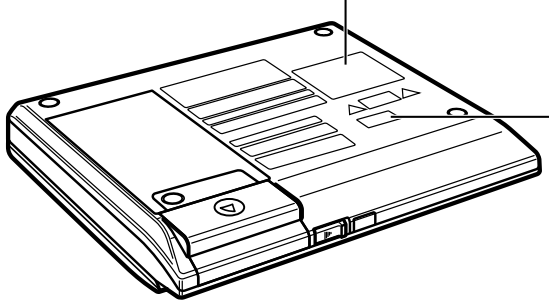
CAUTION : VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENT.

VARNING : SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRRAR ÄR URKOPPLADE. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN GENOM OPTISKA INSTRUMENT.

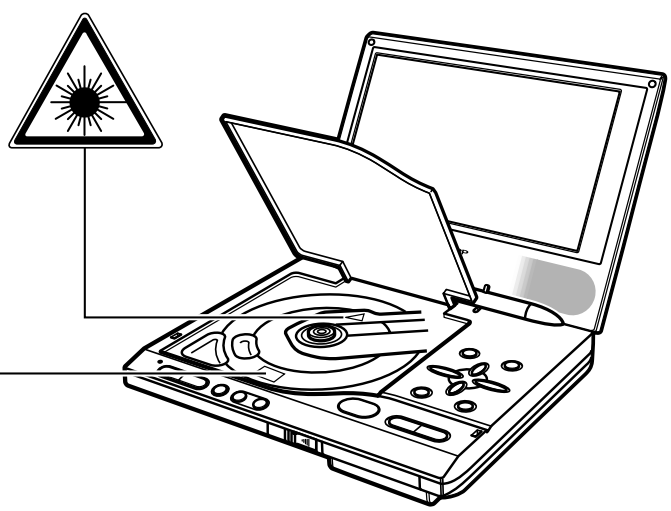
VARO : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ TUIJOTA SÄTEESEEN ÄLÄKÄ KATSO SITÄ OPTISEN LAITTEEN LÄPI.

ADVARSEL : SYNLIG OG USYNLIG LASERSTRÅLNING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES.STIRR IKKE INN I STRÅLEN ELLER SE DIREKTE MED OPTISKE INSTRUMENTER.

ADVARSEL : SYNLIG OG USYNLIG LASERSTRÅLNING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. SE IKKE IND I STRÅLENHELLER IKKE MED OPTISKE INSTRUMENTER.



CLASS 1
LASER PRODUCT



CAUTION
VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENT.

WARNING
DO NOT DEFEAT THESE INTERLOCKS.

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SAFETY INFORMATION

Power Cord Protection

To avoid any malfunctions of the Player, and to protect against electric shock, fire or personal injury, please observe the following.

- Hold the plug firmly when connecting or disconnecting the AC power cord.
- Keep the AC power cord away from heating appliances.
- Never put any heavy object on the AC power cord.
- Do not attempt to repair or reconstruct the AC power cord in any way.

Location and Handling

- Do not place your Player in closed spaces or do not cover it to prevent excessive temperatures inside the unit.
- Do not place the Player in direct sunlight, or near heat sources.
- Keep the Player away from strong magnetic objects.
- Do not insert or drop anything into the Player through the gaps as this could cause serious damage, possibly resulting in fire.
- Do not place any object containing water or other liquids on the Player. In the event that liquid should enter the cabinet, unplug the Player immediately and contact the retailer or service centre approved by SHARP immediately.
- Do not remove the Player cabinet. Touching parts inside the cabinet could result in electric shock and/or damage to the Player. For service and adjustment inside the cabinet, call a qualified dealer or service centre approved by SHARP.

Nonuse Periods

When the Player is not being used, turn it off.
When left unused for a long period of time, the Player should be unplugged from the household AC outlet.

No Fingers or Other Objects Inside

Do not place any foreign object in the disc compartment.

Stacking

Place the Player in a horizontal position, and do not place anything heavy on it.

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Condensation

Moisture may form on the pickup lens in the following conditions:

- immediately after a heater has been turned on.
- in a steamy or very humid room.
- when the Player is suddenly moved from a cold environment to a warm one.

If moisture forms inside this Player, it may not operate properly.
In this case, turn on the power and wait about one hour for the moisture to evaporate.

If there is Noise Interference on the TV While a Broadcast is being Received

Depending on the reception condition of the TV, interference may appear on the TV monitor while you watch a TV broadcast and the Player is left on. This is not a malfunction of the Player or the TV. To watch a TV broadcast, turn off the Player.

Service

Do not attempt to service this Player yourself. Please refer any service to the nearest service centre approved by SHARP.

Copyright

For Southeast Asia

Audio-visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright. Please refer to relevant laws in your country.

For Australia and New Zealand

Copyright may exist in material you wish to record. Copying such material without permission of the relevant licensee(s) or owner(s) of the copyright is prohibited by law. SHARP is not in a position to authorize the recording of copyright works and nothing in this manual should be read or implied as giving that authority.

Copy Protection

This Player supports Macrovision copy protection.
On DVD discs that include a copy protection code, if the contents of the DVD disc are copied using a VCR, the copy protection code prevents the videotape copy from playing normally.

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SAFETY INFORMATION

Apparatus Claims of U.S.Patent Nos. 4,631,603, 4,577,216, 4,819,098 and 4,907,093 licensed for limited viewing uses only.

This Player incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Recommended Measures for Optimum Picture Excellence

The Player is a precision device that is constructed using extremely accurate technology.
Soiling or friction affecting the pickup lens or disc drive can impair the image quality. At the worst, neither video nor audio will be played back. To obtain optimum picture quality, the Player should be checked (cleaning and replacement of some parts) every 1,000 hours. Note that this period varies depending on the environment (temperature, humidity, dust, etc.) in which the Player is used. Contact your authorized Sharp supplier for details.

Do not attempt to clean the pickup lens yourself.

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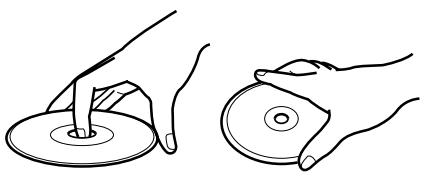
Disc Handling and Maintenance

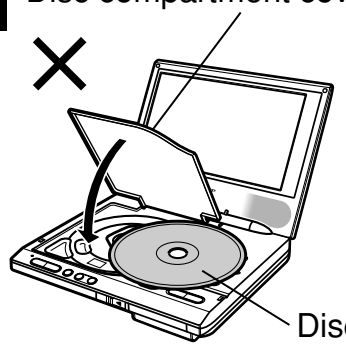
Handling precautions

- Hold the disc by the edges so the surface will not be soiled with fingerprints. (A) Fingerprints, dirt and scratches can cause skipping and distortion.
- Do not write on the label side with a ball-point pen or other writing utensils.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Be careful not to drop or bend the disc.
- Do not install more than 1 disc.
- Do not try to close the disc compartment cover when the disc is not installed properly. (B)
- Be sure to store the disc in its exclusive case when not in use. Then store upright.
- Do not stick paper or adhesive labels to the disc.

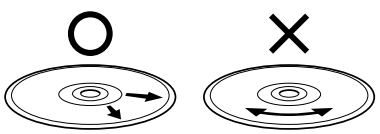
A



B



C



If the Surface is Soiled (C)

Wipe gently with a soft, damp (water only) cloth. When wiping discs, always move the cloth from the centre hole toward the outer edge.
(If you wipe the discs using a circular motion, circular scratches are likely to occur, which will cause noise.)

If the playing surface of a disc is soiled or scratched, the Player may display indicator on the screen and fail to play the disc correctly. Wipe any soiling off the playing surface with a soft cloth.

If the Disc is Brought from a Cold to a Warm Environment, Dew may form on the Disc

Wipe this dew off with a soft, dry, lint-free cloth before using the disc.

Improper Disc Storage

You can damage discs if you store them in the following places:

- Areas exposed to direct sunlight
- Humid or dusty areas
- Areas directly exposed to a heat outlet or heating appliance

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Features

This Player can play back DVD video discs, VIDEO CDs and Audio CDs.

- CD-R/CD-RW recorded in MP3 file format can also be played.

8" LCD Screen and Stereo Speakers

- A big 8" LCD screen and built-in stereo speakers provide exciting DVD viewing, even without connecting to a TV.

2-Way Power Supply

- A 2-way power supply allows operation using the supplied AC adapter for indoor play, or the battery pack (optional accessory) for outdoor play.

Compact, Lightweight Design

- Your Player is designed to go along just about anywhere.

High-Resolution Images, High-Quality Sound

- A high-resolution 336,960-pixel LCD screen produces images of outstanding quality.
- DIGITAL GAMMA correction and DIGITAL SUPER PICTURE provide more realistic image detail.
- VIRTUAL DOLBY (*[1]QSURROUND) ensures richer sound from two built-in speakers.

AV input/output, optical digital output jack equipped as standard

- An optical digital output jack (which doubles as the phones jack) can be used to output a stream of *[2]Dolby Digital 5.1 channel audio, *[3]DTS digital audio and MPEG audio. Connecting a Dolby Digital/DTS/MPEG Audio digital surround processor or amplifier to this jack creates an environment of amazingly powerful surround sound.
- The AV input/output jack can be used to connect a VCR or camcorder to your Player. Or you can use these jacks to connect to a TV for big-screen viewing.

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*1 QSURROUND™ is a trademark of QSound Labs, Inc.

*2 Manufactured under license from Dolby Laboratories. “Dolby” and the double-D symbol( ) are trademarks of Dolby Laboratories. Confidential Unpublished Works. ©1992–1997 Dolby Laboratories, Inc. All rights reserved.

*3 “DTS” and “DTS Digital Surround” are trademarks of Digital Theater Systems, Inc.

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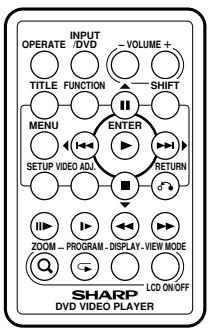
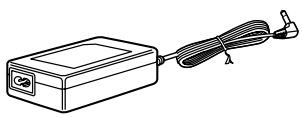
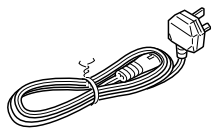
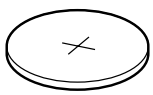
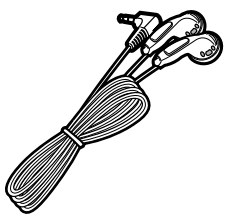
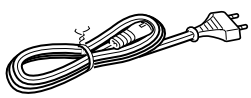
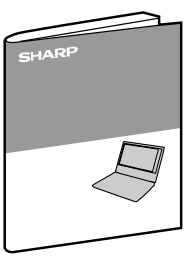
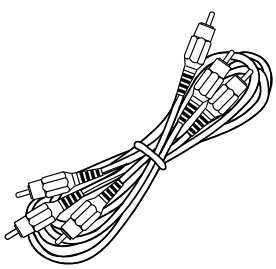
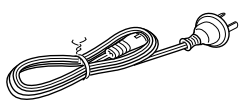
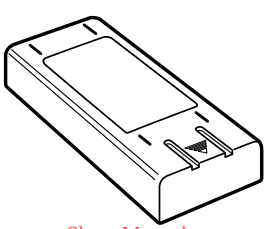
Accessories

■ Supplied Accessories

Remote control unit 	AC Adapter 	AC Cord For Hong Kong  Only supplied with the model for Hong Kong
CR2025 type lithium battery for the Remote unit 	Earphones 	AC Cord For other Southeast Asia  Only supplied with the model for other South-east Asia
Operation Manual 	Video/Audio cable 	AC Cord For Australia and New Zealand  Only supplied with the model for Australia and New Zealand

■ Optional Accessories

Lithium ion battery pack (BT-L300S)



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Types of Discs that Can Be Played on Your Player

The unit can play back discs bearing any of the following marks:

DVD VIDEO DVD VIDEO	DVD [8cm (3") disc/ 12cm (5") disc]	NOTE 1 NOTE 2 (See page 16.)
COMPACT disc DIGITAL VIDEO VIDEO CD	VIDEO CD [8cm (3") disc/ 12cm (5") disc]	• Supports until version 2.0.
COMPACT disc DIGITAL AUDIO	Audio CD [8cm (3") disc/ 12cm (5") disc]	NOTE 2 (See page 16.)
	CD-R/CD-RW [8cm (3") disc/ 12cm (5") disc]	• Discs recorded in MP3 file format or Audio format.

* Depending on the recording, some CD-Rs can be played back and some cannot.

NOTE 1

- Players and discs are designed with region numbers which dictate the regions in which a disc can be played. If the region number on the disc you want to play does not match the region number in your Player, you will not be able to play the disc.

<For Southeast Asia>

The region number for this Player is *3*.

Sample disc display:

As for the list of the region number 3 countries and the world map for all region numbers, refer to pages 113 and 114.

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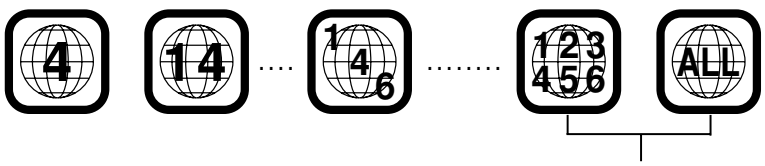
Types of Discs that Can Be Played on Your Player

<For Australia and New Zealand>

The region number for this Player is *4*.

Sample disc display:



As for the list of the region number 4 countries and the world map for all region numbers, refer to pages 113 and 114.

<For Southeast Asia>

Discs that Cannot be Played

The following types of discs cannot be played back on this Player. In many cases, attempting to play back such discs may result in malfunction and/or damage to this Player.

- Illegally produced, or “pirated”, discs
- Photo CD, DVD-Audio, SACD, DVD-ROM, CD-ROM, DVD-R, DVD-RW, S-VCD/CVD, or any other disc with marks other than those displayed above
- Discs with unusual shapes (for example, heart-shaped or hexagonal)
- DVDs with region codes other than region number 3, such as discs intended for use in the U.S.A. (region 1) or China (region 6)

In addition to the above, when a disc is scratched, soiled, or marked with fingerprints, this Player may determine that the disc cannot be played, and display on the screen. When this occurs, clean the disc referring to the guidelines on page 9, and then try to load the disc again.
While a disc is playing, minor soiling or scratches on the disc may disrupt the image (appearing as blocks on the screen). When the image is disrupted, the Player automatically restores the correct image after 2 or 3 seconds.

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<For Australia and New Zealand>

Discs that Cannot be Played

The following types of discs cannot be played back on this Player. In many cases, attempting to play back such discs may result in malfunction and/or damage to this Player.

- Illegally produced, or “pirated”, discs
- Photo CD, DVD-Audio, SACD, DVD-ROM, CD-ROM, DVD-R, DVD-RW, S-VCD/CVD, or any other disc with marks other than those displayed above
- Discs with unusual shapes (for example, heart-shaped or hexagonal)
- DVDs with region codes other than region number 4, such as discs intended for use in the U.S.A. (region 1) or China (region 6)

In addition to the above, when a disc is scratched, soiled, or marked with fingerprints, this Player may determine that the disc cannot be played, and display on the screen. When this occurs, clean the disc referring to the guidelines on page 9, and then try to load the disc again.
While a disc is playing, minor soiling or scratches on the disc may disrupt the image (appearing as blocks on the screen). When the image is disrupted, the Player automatically restores the correct image after 2 or 3 seconds.

Disc Function or Operation that is Not Available

In the cases listed below, the or indicator may appear on the TV screen, which indicates that the function or operation is not available.

- When you intend to perform the function or operation on which the manufacturer restriction is imposed:
  The specific functions on some DVDs and VIDEO CDs are determined by the disc manufacturer. As this Player plays disc data in accordance with the guidelines of the disc manufacturer, some functions may not be available on some discs. Be sure to read the documentation provided with the disc.
- When you intend to perform the functions or operations prohibited for the current disc:
  The types of functions and operations that can be used for a particular disc vary depending on the features of that disc. Some disc functions and operations may differ from the descriptions given in this Operation Manual. In this event, follow the instructions given on the screen.

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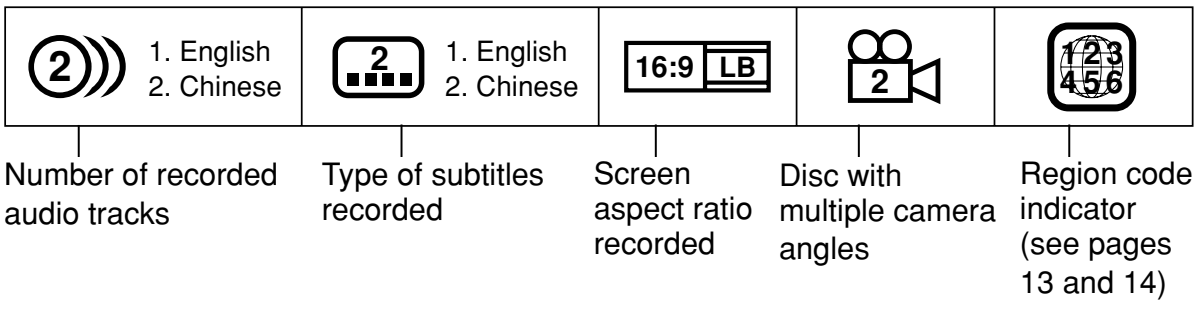
Types of Discs that Can Be Played on Your Player

Icons Used on DVD Discs

Sample Icons



NOTE 2

- This Player supports 2-channel (L/R) audio and 5.1ch (Multi-channel) MPEG Audio 1/2 (only when the OPTICAL DIGITAL OUT jack is used for connection). It does not support 7.1 channel MPEG Audio Version 2.0.

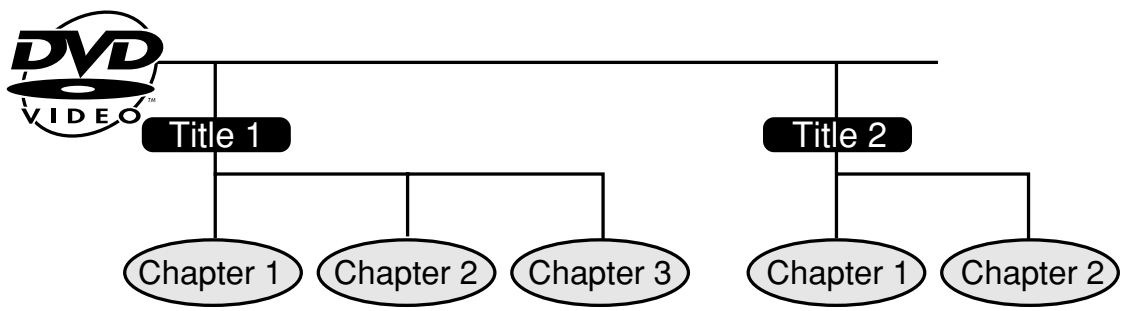
NOTE 3

- When playing back a CD-G (Graphics) or CD EXTRA disc, the audio portion will be played, but the graphic images will not be shown.

Title, chapter and track

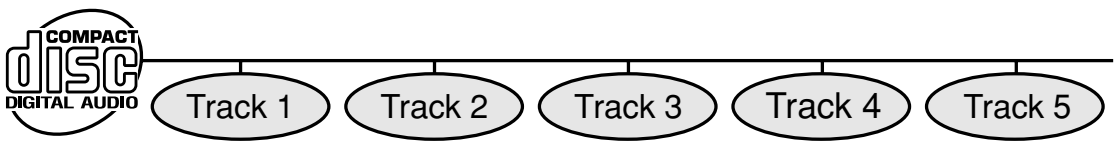
- DVDs are divided into “titles” and “chapters”. If the disc has more than one movie on it, each movie would be a separate “title”. “chapters”, on the other hand, are subdivisions of titles.

Example: DVD



- VIDEO CDs and Audio CDs are divided into “tracks”. You can think of a “track” as one tune on an Audio CD.

Example: VIDEO CD or Audio CD



NOTE

- Numbers identify each title, chapter, and track on a disc. Most discs have these numbers recorded on them, but some do not.

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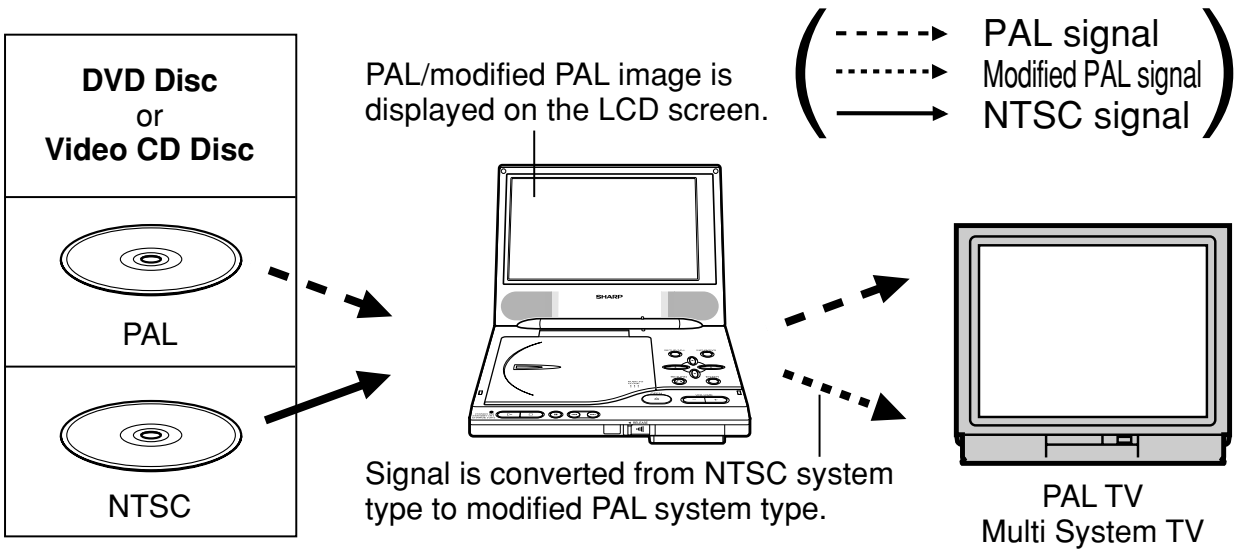
Discs recorded by PAL system, Discs recorded by NTSC system and Type of TV connection

<For Southeast Asia>

- The Player can play back discs recorded by NTSC using the modified PAL system, such as Video CD, DVD-region 3, but cannot play back discs for the use in U.S.A. (region No. 1).
- Region numbers cannot be changed in this system.
- This Player also has a built-in system converter which makes it possible to view discs (Video CD, DVD-region 3) recorded by the NTSC system using a PAL TV. (See “NTSC disc playback on a PAL TV” below.)

<For Australia and New Zealand>

- The Player can play back discs recorded by NTSC using the modified PAL system, such as Video CD, DVD-region 4, but cannot play back discs for the use in U.S.A. (region No. 1).
- Region numbers cannot be changed in this system.
- This Player also has a built-in system converter which makes it possible to view discs (Video CD, DVD-region 4) recorded by the NTSC system using a PAL TV. (See “NTSC disc playback on a PAL TV” below.)



NTSC disc playback on a PAL TV

When playing an NTSC disc using a PAL TV, please note the following:

- The picture will shrink vertically to some degree, as shown in the diagram, but this does not indicate a malfunction in your TV or Player.
- If your TV does not have a V-HOLD control, the picture may roll and be unwatchable. However, if you use a TV with V-HOLD control, you can stop the rolling by adjusting the V-HOLD control and watch the picture.

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Quick Start Guide

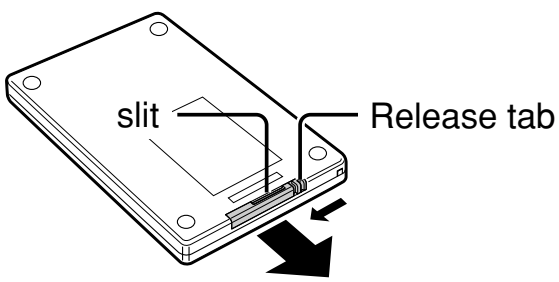
This Quick Start Guide provides only the most basic information for operating your Player. See the other sections of this Operation Manual for full details about operational procedures, precautions, and other information.

- Connections and initial settings ... on pages 30 to 67
- To play a disc ..... on pages 68 to 100
- To view images from a VCR or other external equipment ..... on page 101

1 Install the battery in the Remote.

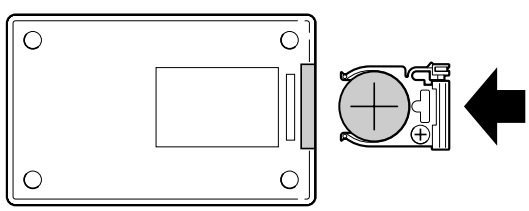
Correctly load a lithium battery into the Remote that comes with the Player.

1 Holding the release tab to the left, slide the battery holder from the Remote with your fingernail catching the slit.



2 Place a lithium battery into the battery holder and slide the battery holder back into place.

- Make sure the ± side of the battery is facing in the same direction as the ± mark on the battery holder. The remote control will not operate correctly if you insert the battery upside-down.



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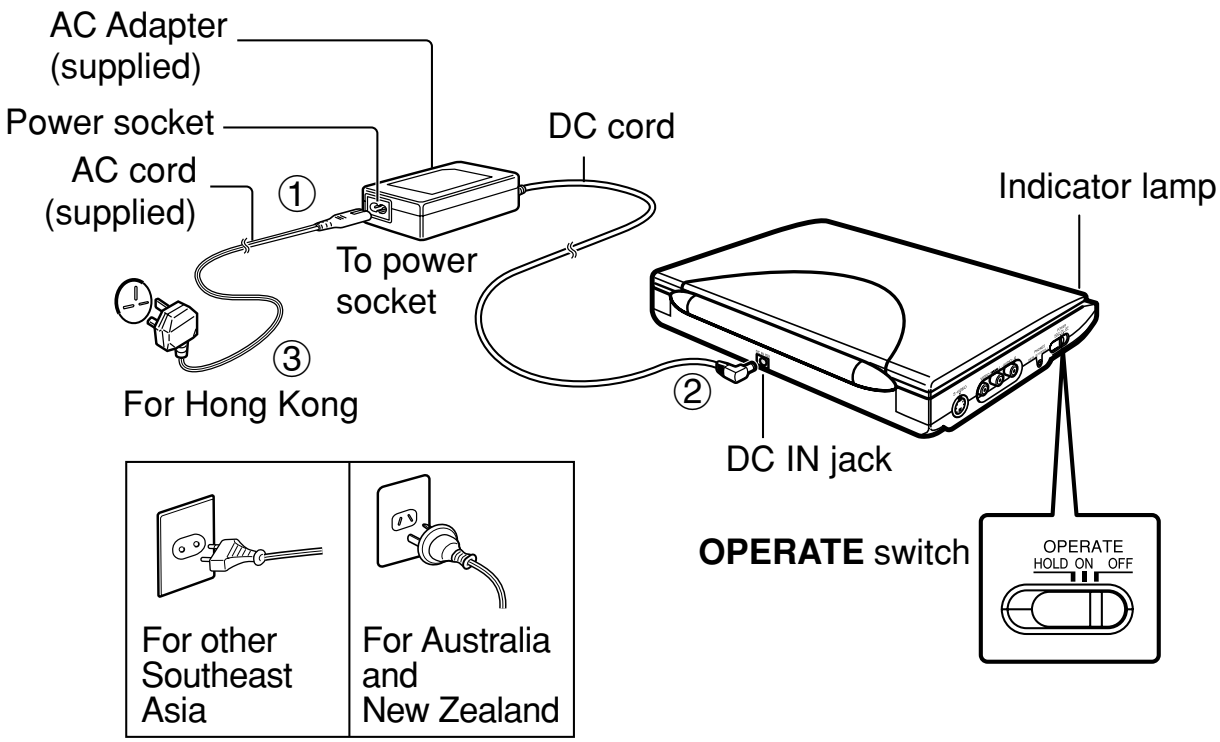
2 Connect the AC adapter to the Player.

1 Plug the AC cord into the power socket of the AC adapter (①).
2 Plug the DC output plug into the DC IN jack of the Player (②).
3 Plug the other end of the AC cord into a household power outlet (③).

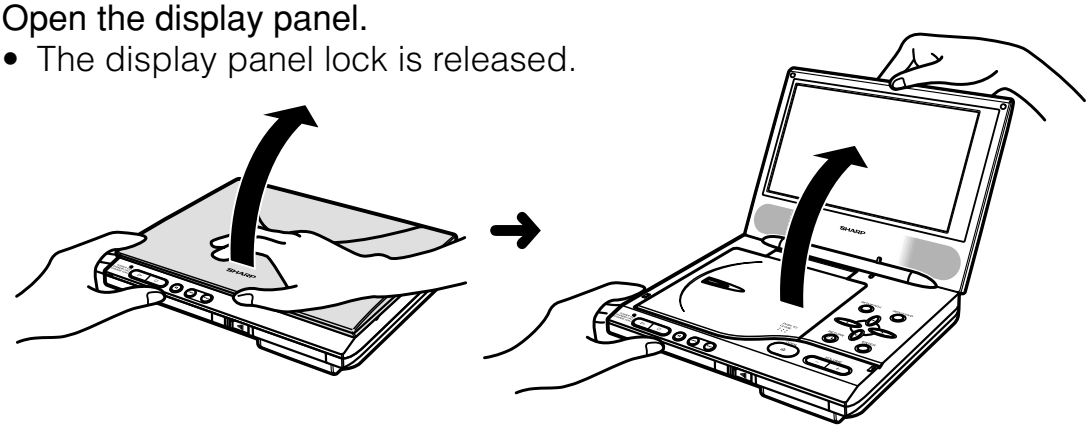


NOTE

- The AC adapter needs time to initialize whenever you plug it into a power outlet. Wait for about three seconds after plugging it in to turn on the Player.

3 Open the display panel and turn on the Player.

1 Open the display panel.
- The display panel lock is released.



2 Slide the **OPERATE** switch to “ON” to turn on the Player (see the illustration in 2).

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4 Prepare the disc you want to play.

Before loading a disc, check to make sure that it is one that is supported by the Player.

Supported Disc Types

Disc Type	Disc Contents	Disc Size
DVD Video Disc Region Numbers: **For Southeast Asia** **For Australia and New Zealand** NTSC/PAL system DVD discs that conform to the region numbers noted above (see pages 13, 14)	Audio and video (movies)	12cm (5") / 8cm (3")
VIDEO CD NTSC/PAL system VIDEO CDs	Audio and video (movies)	12cm (5") / 8cm (3")
Audio CD	Audio	12cm (5") / 8cm (3") (single)
CD-R/CD-RW Discs recorded in MP3 file format or Audio format	Audio	12cm (5") / 8cm (3")

5 Set the OSD language.

The factory default setting of the OSD (On Screen Display) language is set to "ENGLISH".

- Refer to page 48 to change the OSD language.

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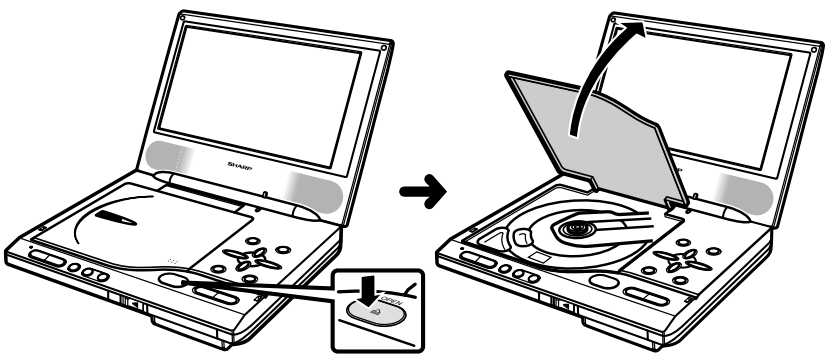
6 Load the disc and start play.

After confirming that the disc is compatible, you can load it into the Player and play it.

To load a disc into the Player

1 Press ▲**OPEN** to open the disc compartment cover.

- The disc compartment cover moves within a range of 0 to 60 degrees. Never try to force the cover to move outside this range. Doing so can damage the cover.



2 Gently press down on the disc in the vicinity of the centre hole so it seats properly into place.

- You should be able to hear and feel the disc seat securely into place when you press down on it.

NOTE

- Make sure the label of the disc is facing up when you load it into the Player.

3 Close the disc compartment cover and press down at the corner marked “PUSH TO CLOSE” so it locks securely into place.

! Important!

- Make sure the disc seats securely when you load it into the Player. An improperly seated disc can result in damage to the disc and malfunction of the Player.
- The indicator appears on the display if the disc you are using is damaged, if you load the disc upside-down, or if the region number of the disc you are using is one that is not supported by this Player. If the above indicator appears, remove the disc from the Player and take the proper corrective action.

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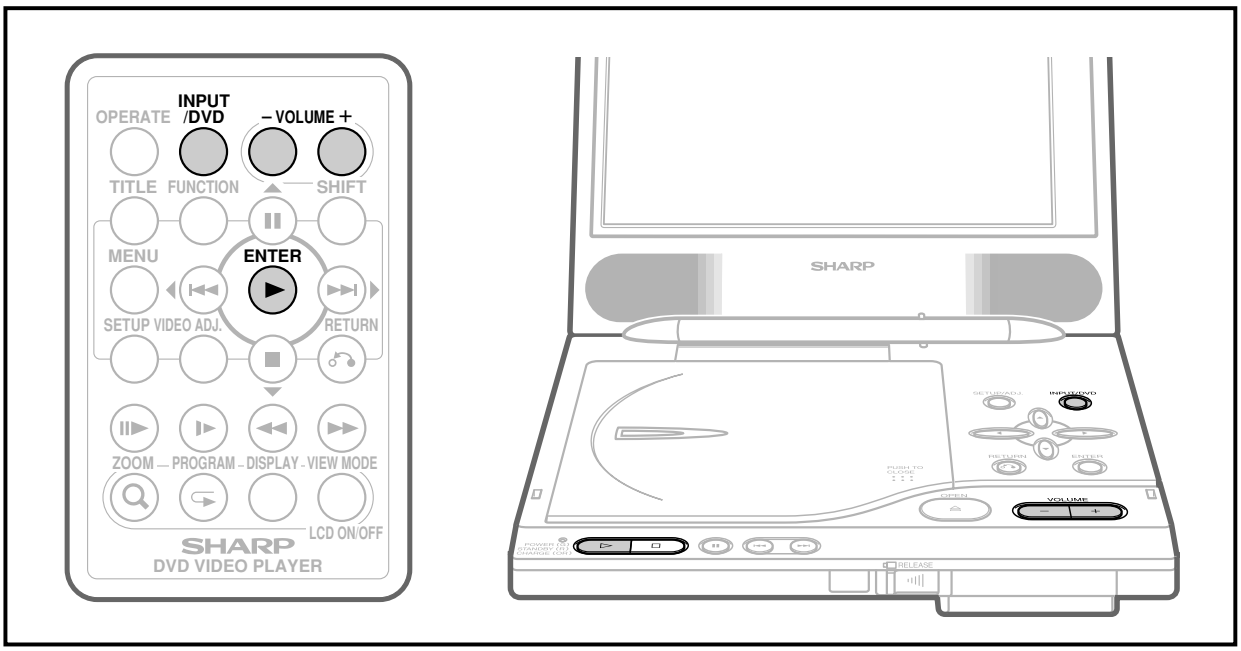


To play a disc

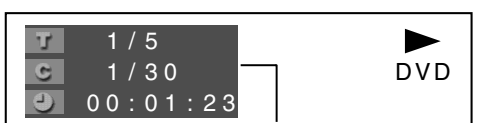
1 Press **INPUT/DVD** to select “DVD”.

- The Startup screen appears after a few moments.
- For information about how to turn on power and load a disc, see page 19 and 21 respectively.

Startup screen

2 Press ► **(PLAY)**.

- This starts play of the disc.



Information display is enabled only when the display is turned on (see page 66).

To adjust the volume level

Use **–VOLUME** and **VOLUME+** to adjust the volume level.
You can adjust volume level within a range of 0 to 20.

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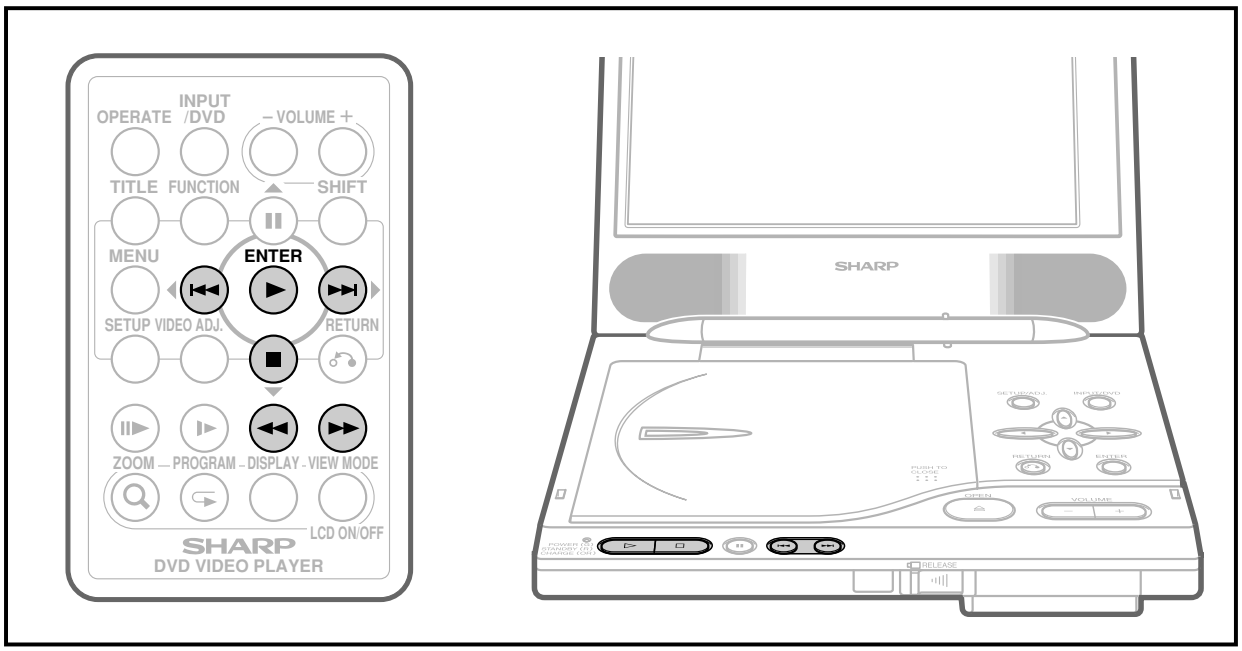
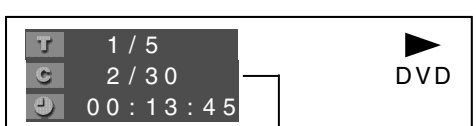


Disc play operations

To use chapter (track) skip

While a disc is playing, press ▶▶I **(SKIP)** or I◀◀ **(SKIP)**.

- ▶▶I **(SKIP)** skips to the next chapter (track).
- I◀◀ **(SKIP)** skips to the beginning of the current chapter (track). Press I◀◀ **(SKIP)** again to skip to the previous chapter (track).



Information display is enabled only when the display is turned on (see page 66).

NOTE

- You may not be able to use chapter (track) skip with some discs.
- You may not be able to use chapter information display with some discs.

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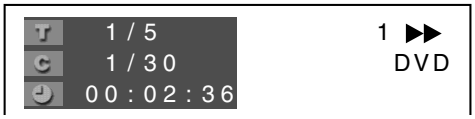
To fast forward and fast reverse



1 While a disc is playing, press ▶▶ **(FWD)** or ◀◀ **(REV)**.
- ▶▶ **(FWD)** starts fast forward.
- ◀◀ **(REV)** starts fast reverse.

2 To stop a fast forward or fast reverse operation, press ▶ **(PLAY)**.
- This returns to normal play.

NOTE

- You may not be able to use fast forward and fast reverse with some discs.

- Holding down the Player's ▶▶| **(SKIP)** or |◀◀ **(SKIP)** for about two seconds also performs the search operation.

To stop disc play

1 Press ■ **(STOP)**.

To remove the disc from the Player

1 Press ▲**OPEN** to open the cover.

2 Carefully remove the disc from the Player.

NOTE

- Take care so you do not touch the disc surface with your fingers. As shown in the illustration, place your index finger into the centre hole of the disc and lift up the edge of the disc with your thumb.

3 Close the disc compartment cover and press down at the corner marked "PUSH TO CLOSE" so it locks securely into place.

! Important!

- Keep the disc compartment cover closed except when loading or removing a disc. Otherwise, dust getting into the Player can lead to malfunction.

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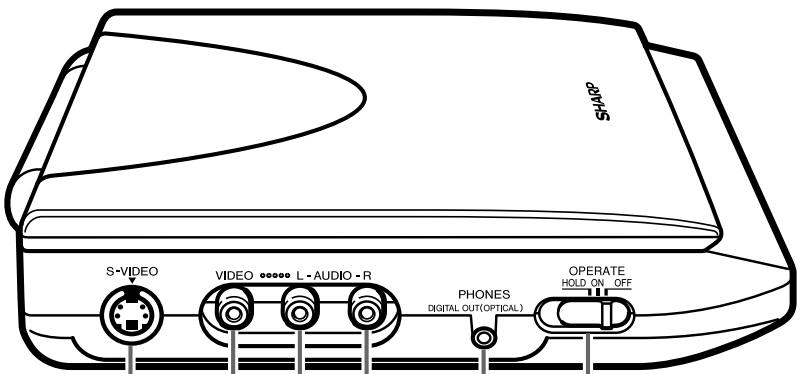
General Guide

Player - Right side

Numbers in refer to the main pages in this Operation Manual where the topic is explained.



S-VIDEO input/output jack **31**

VIDEO input/output jack (yellow) **30, 31**
Only PAL signal can be input.
(NTSC signal cannot be input.)

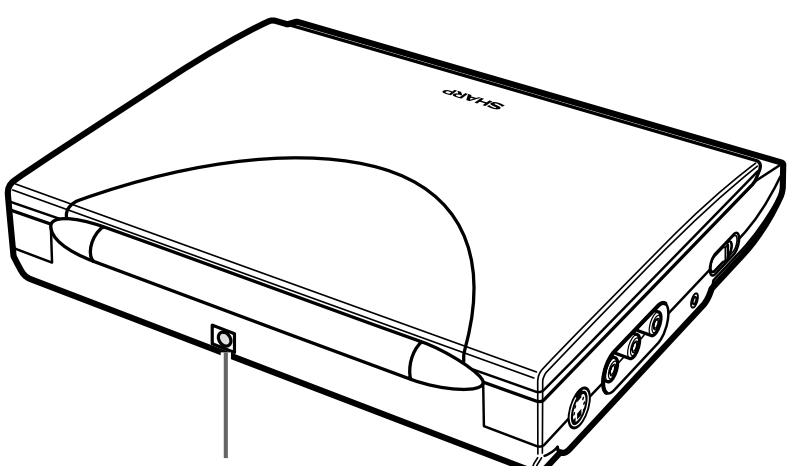
AUDIO (L) input/output jack (white) **31, 32**

AUDIO (R) input/output jack (red) **31, 32**

41 **OPERATE** switch

33, 34 **DIGITAL OUT (OPTICAL)/ PHONES** jack

Player - Rear



35 **DC IN** jack

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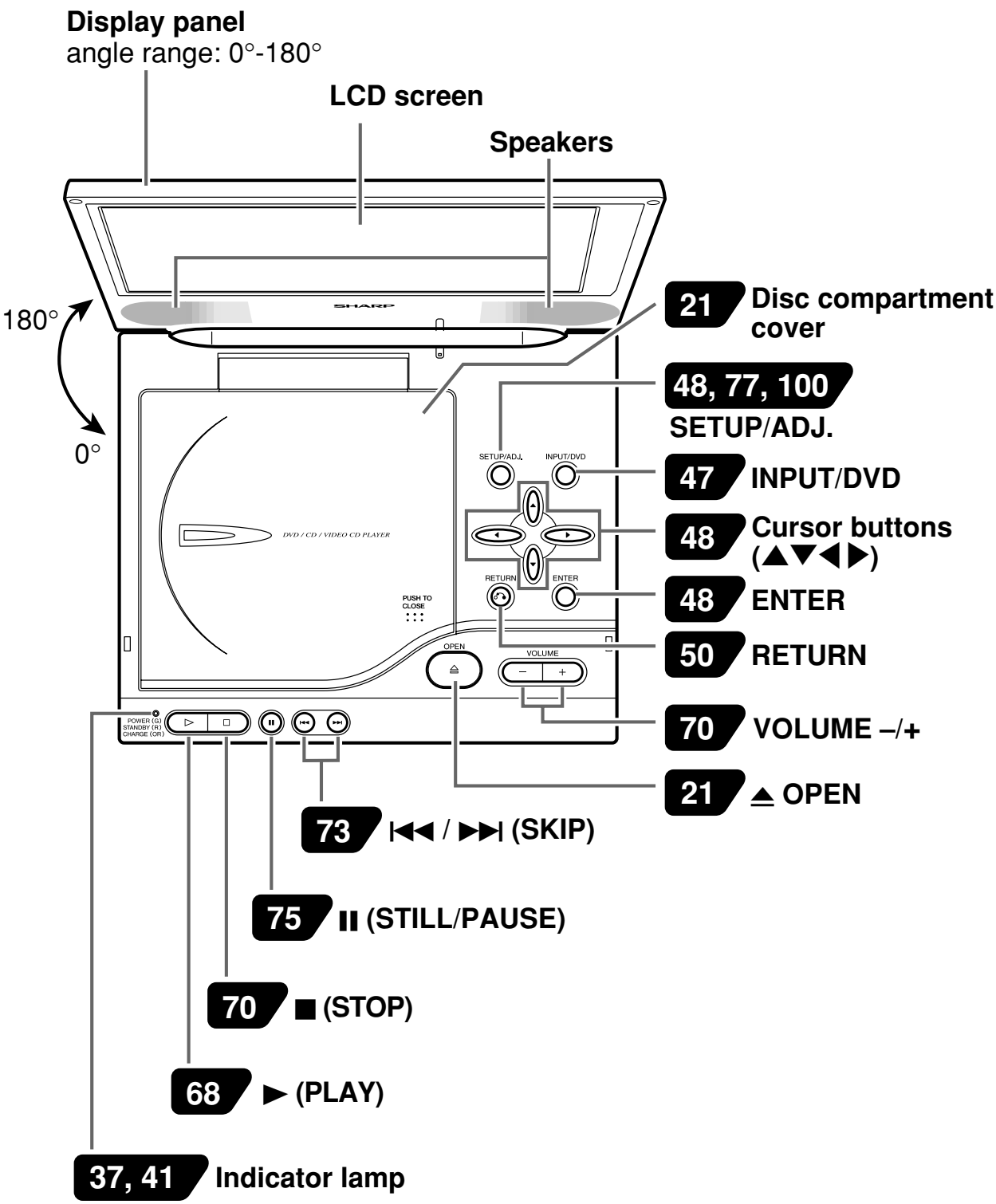
Player - Front

Numbers in refer to the main pages in this Operation Manual where the topic is explained.



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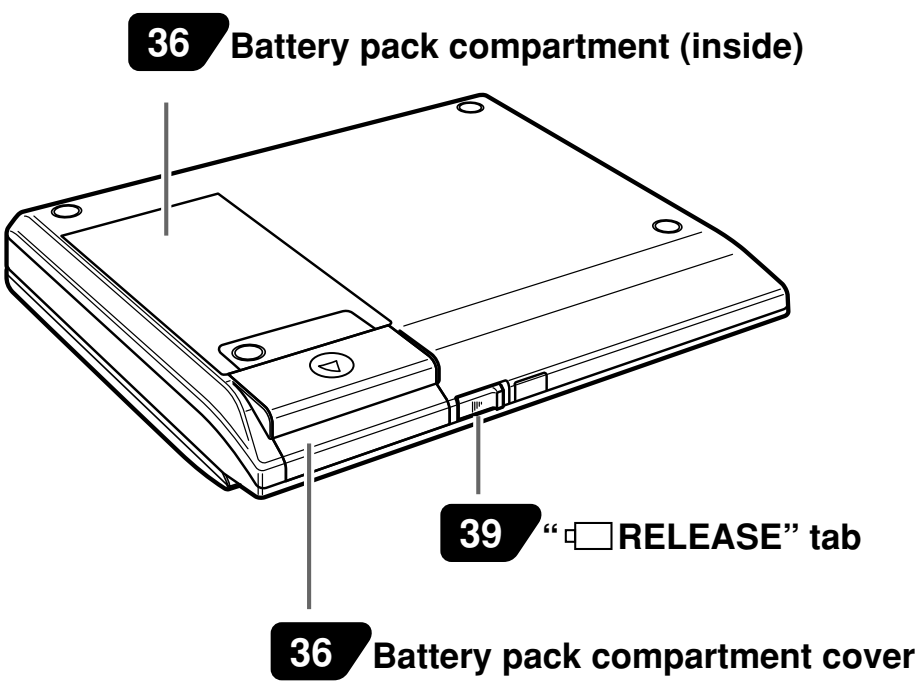
Important!

- The range of movement for the display panel is 0° to 180°. Never try to force it open past 180°. Doing so can seriously damage the display panel and Player.
- The range of movement for the disc compartment cover is 0° to 60°. Never try to force it open past 60°. Doing so can seriously damage the disc compartment cover and Player.

Player - Bottom



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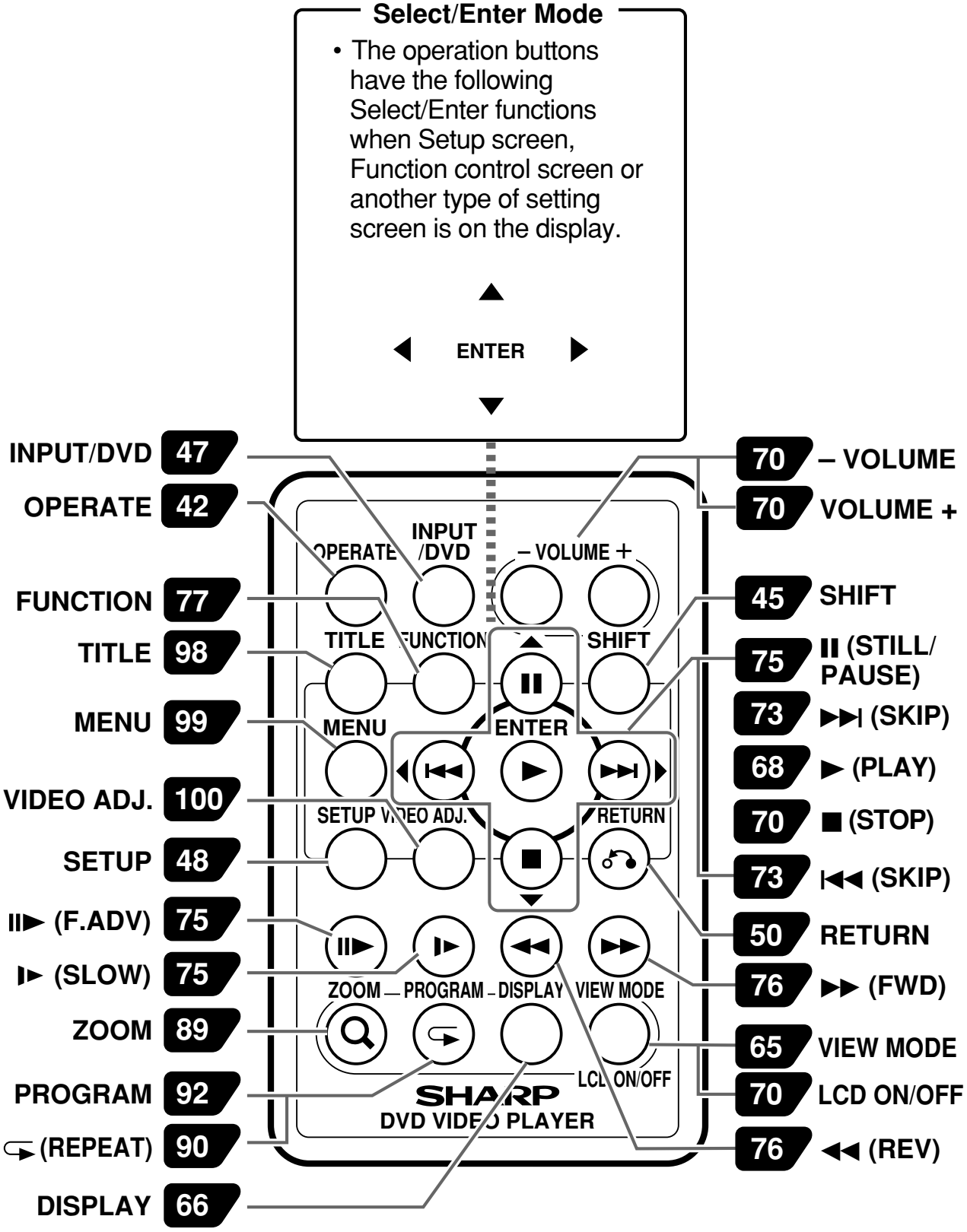
Remote Control Unit

Numbers in refer to the main pages in this Operation Manual where the topic is explained.

Select/Enter Mode

- The operation buttons have the following Select/Enter functions when Setup screen, Function control screen or another type of setting screen is on the display.



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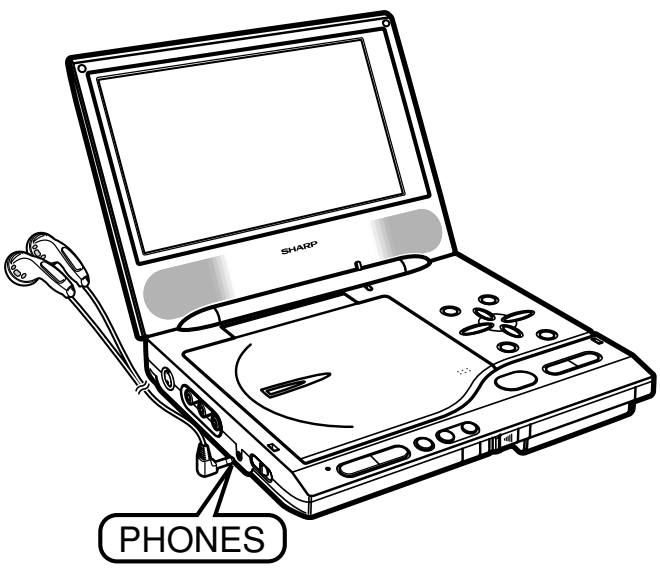
Using Headphones

You can connect the earphones supplied with the Player or commercially available headphones with a stereo mini plug to the PHONES jack and listen to the audio output.

To use the supplied earphones

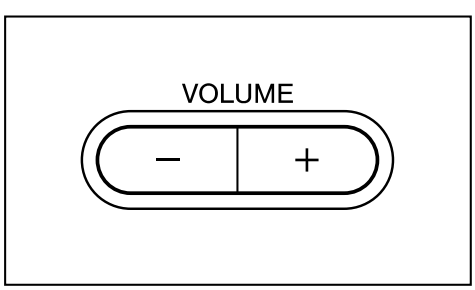
1 Connect the earphones supplied with the Player to the PHONES jack.
- The PHONES jack is a stereo mini jack.



Important!
- Lower the volume level to minimum before you plug the supplied earphones or commercially available headphones.

NOTE
- Connecting the supplied earphones or commercially available headphones disables the Player's speakers.
- The PHONES jack doubles as the optical digital output jack.

2 Use **– VOLUME** and **VOLUME +** to adjust the volume level.



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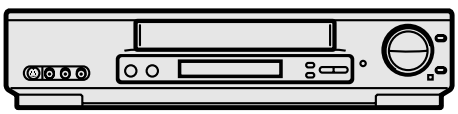
Connecting to External Equipment for Input

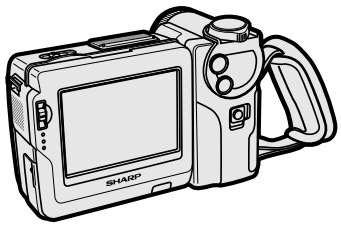
Selecting the INPUT mode using **INPUT/DVD** on the Player automatically switches the function of its video and audio input/output jacks to input. Then you can view images from a connected VCR or camcorder on the screen of your Player.

External Equipment

VCR

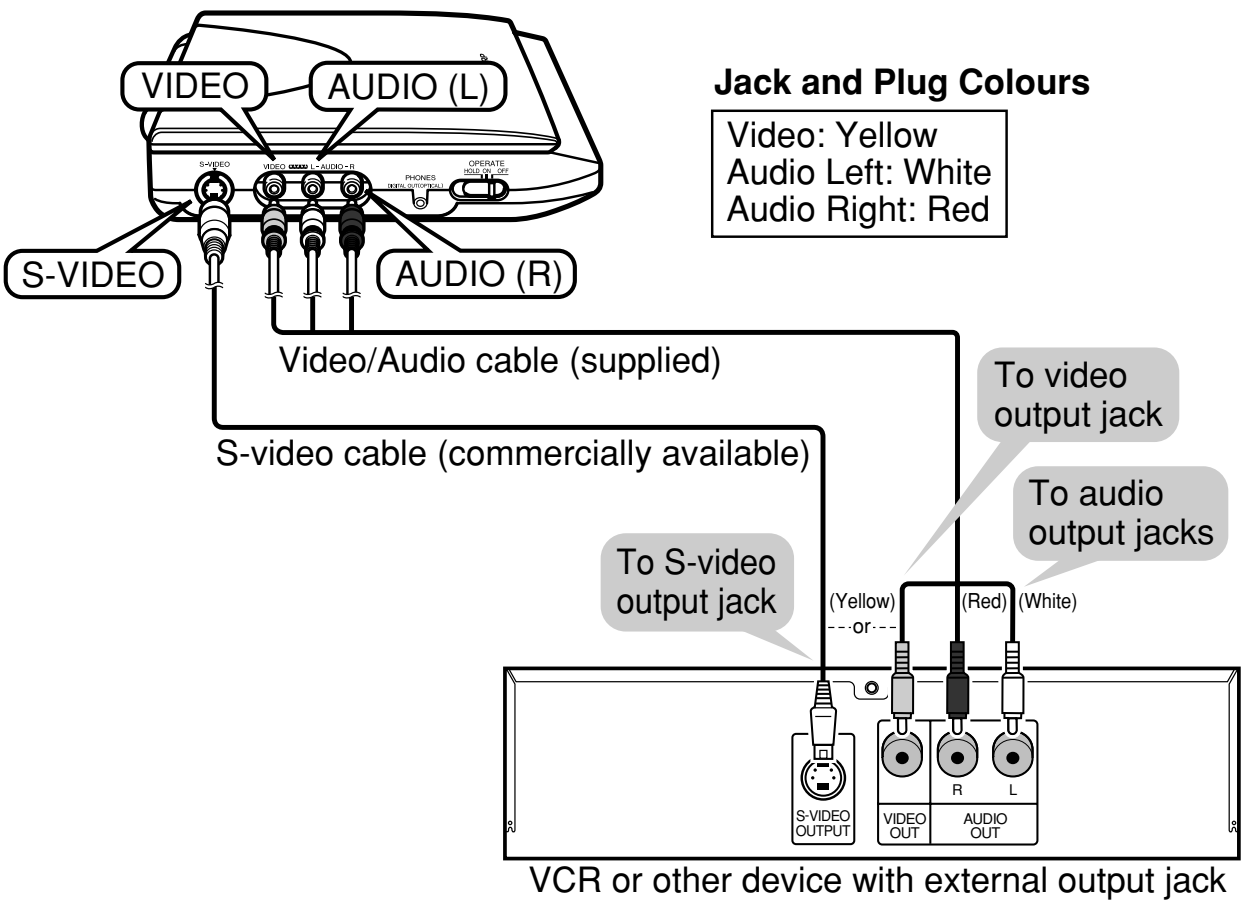


Camcorder



SETTING UP

To connect external equipment



Jack and Plug Colours

Video: Yellow
Audio Left: White
Audio Right: Red

VCR or other device with external output jack

! Important!

- Be sure to turn both the Player and the other equipment off before connecting them. Doing so protects against damage.
- Refer to the operation manual for the other equipment for details about its operation, connecting procedures, etc.

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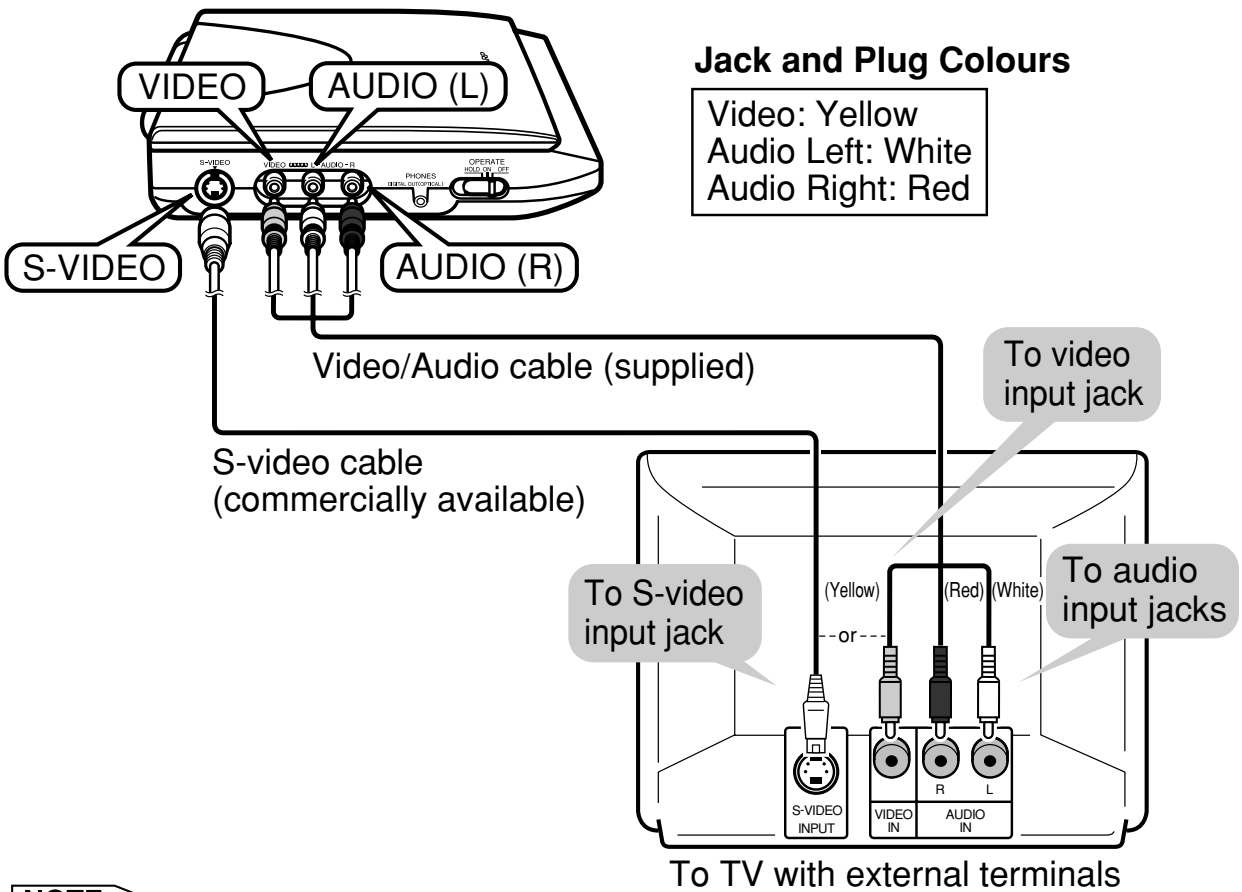
Connecting a TV with External Terminals

You can use a commercially available S-video cable to connect your Player to a television equipped with an S-video input jack and enjoy viewing high-quality images on the TV screen.

- Be sure to turn both the Player and the TV equipment off before connecting them.



NOTE

- If you want to listen to the audio through audio equipment, connect only the S-video cable or video cable to the TV.
- Play is possible while the display panel of the Player is closed. In this case, no audio is output from the Player speakers.
- Use the Remote to control the Player while the display panel is closed.
- You should turn off the LCD display to save battery by holding down **LCD ON/OFF** for two or more seconds.

To watch Player images on the TV

1. Turn on the TV.
2. Set the TV to channel where the Player is connected (“AV”, “VIDEO”, etc.).
3. Turn on the Player and start play.
   - See page 68 for details on how to play a disc.

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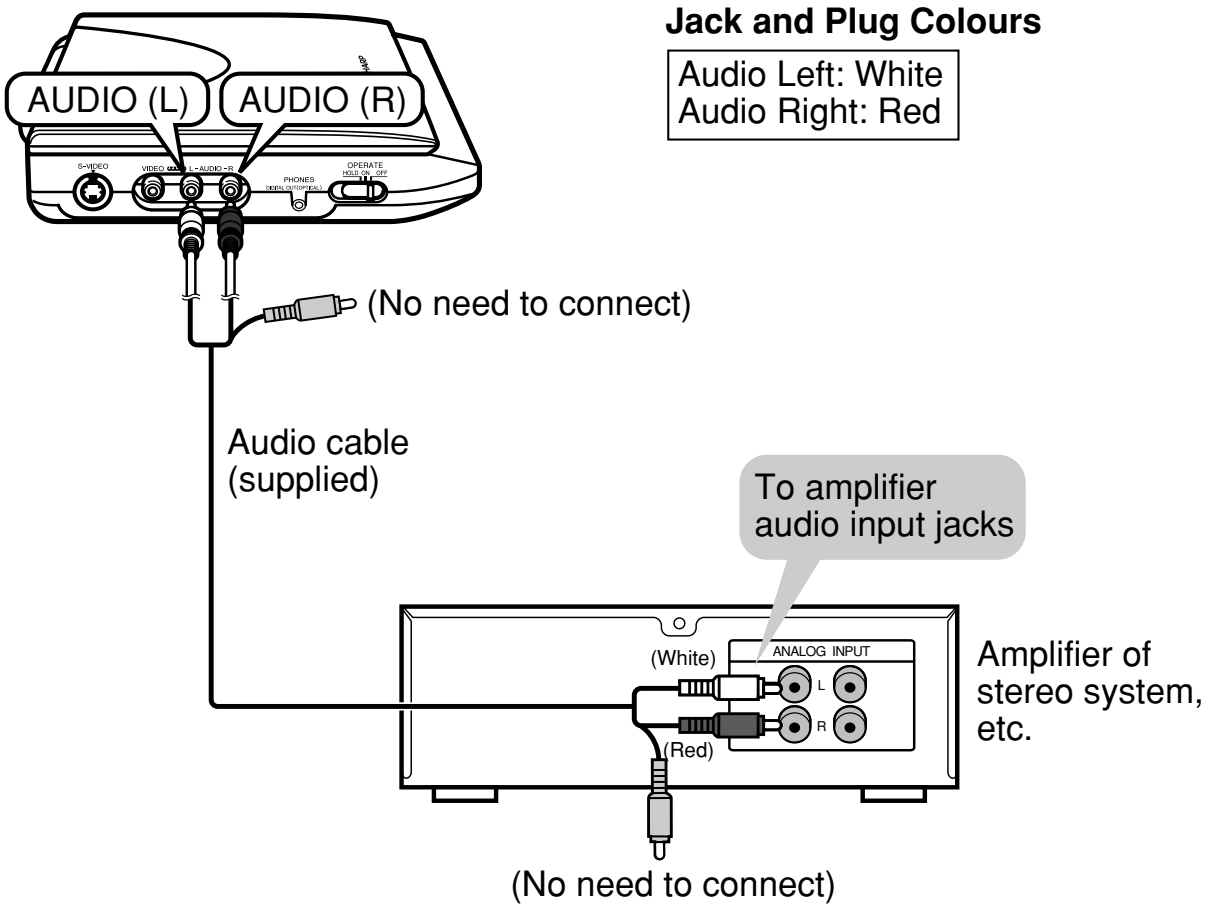
Connecting to Audio Equipment

Connecting the Player to audio equipment provides normal stereo sound plus powerful stereo sound enhanced by Dolby Digital (5.1 channel), DTS and MPEG Audio.

Playing 2 channel audio

■ Analogue Connection



- When connecting to audio equipment, we recommend that you set the "COMPRESSION (Dolby Digital Output Level)" to "OFF" (see page 56).

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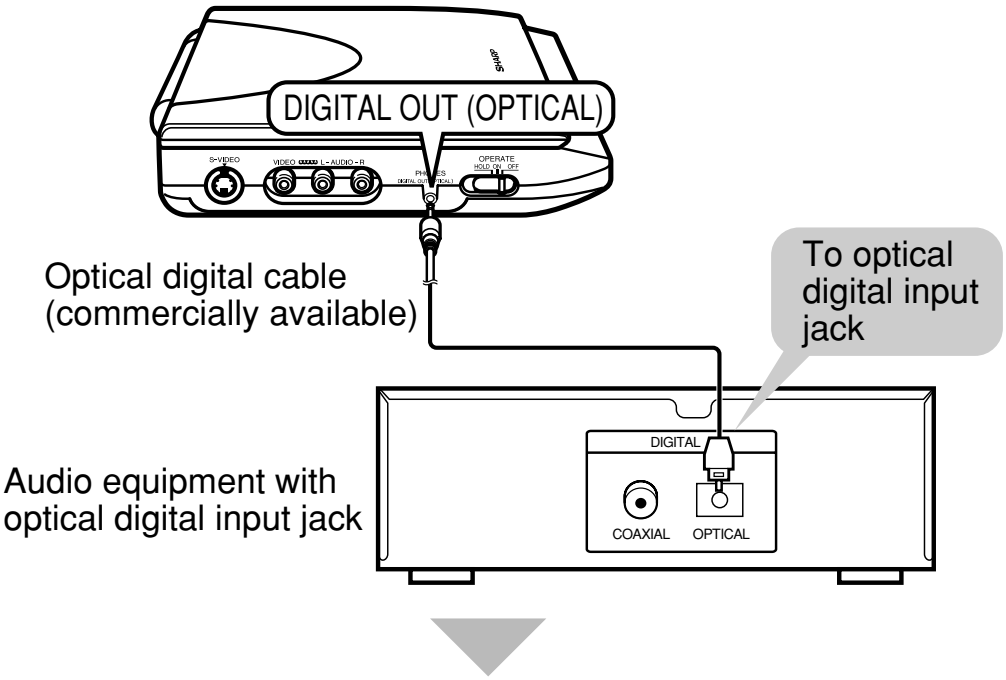
■ Digital Connection



After making the above connection

1 Set the " DIGITAL" in "AUDIO SETUP" to "D-PCM" (see page 58).

■ Digital Connection to Audio Equipment or MD Player without a Dolby Digital Decoder

- Audio CD or VIDEO CD
  Play the disc as you normally would, with the audio mode set to "L+R" (see page 84). With a digital connection, audio of a disc recorded with DTS sounds abnormal in this case.
- DVD Video Disc
  The digital connection illustrated above shows connection to audio equipment that is not equipped with a decoder. Because of this, it cannot produce 5.1 channel sound when playing a DVD whose audio track is recorded in Dolby Digital (5.1 channel), Dolby Surround (Pro Logic), DTS or MPEG Audio. To play the audio on such a DVD, you must configure a digital connection with an audio processor or amplifier equipped with a decoder for the type of audio on the DVD you are attempting to play. (See page 34.) If you do not have an audio processor or amplifier equipped with the proper decoder, use a 2-channel analogue (Down Mix) connection. (See pages 32 and 58.) Note that discs recorded with Linear PCM audio should play normally using the digital connection illustrated above.

Digital Connection to an MD to Record a CD

When you are using a digital connection to record the contents of a CD to an MD, the track numbers of the CD may not match the track numbers recorded to the MD.

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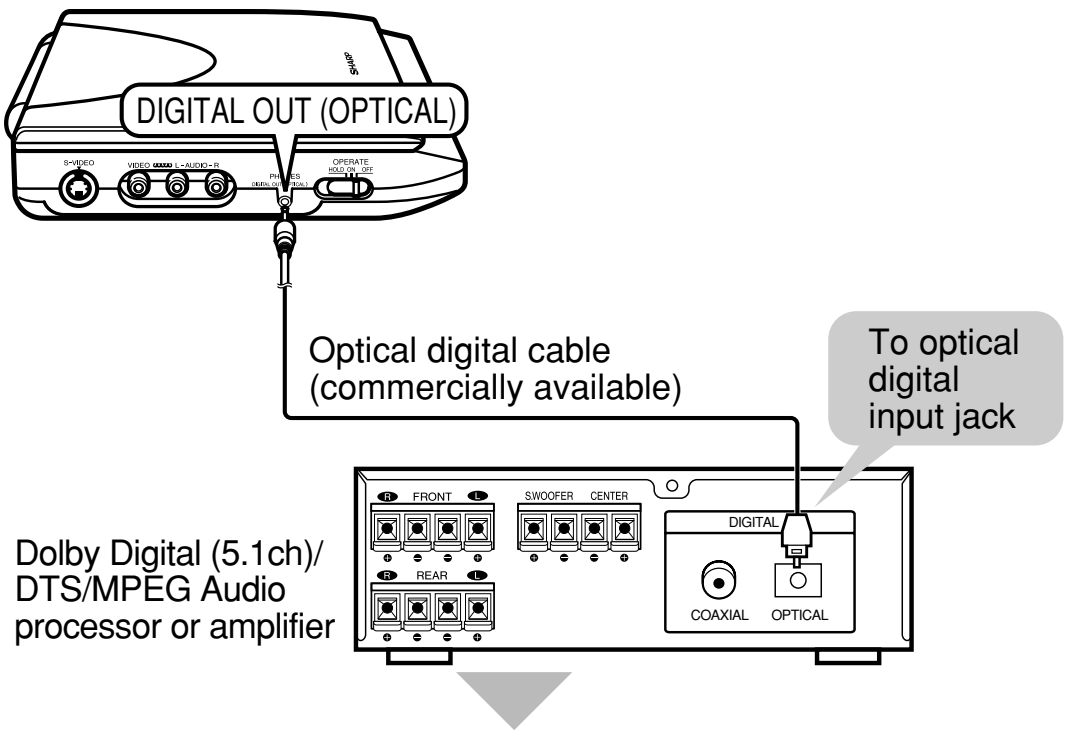
Playing Dolby Digital (5.1 channel), DTS and MPEG audio

- Connecting an amplifier with a Dolby Digital/DTS/MPEG Audio digital surround processor or a Dolby Digital/DTS/MPEG Audio digital surround decoder to your Player's optical digital jack provides richer, more powerful audio play.
- To use DTS digital surround, use the Disc Menu screen (page 99) or the Function control screen (page 81) to select DTS audio.



After making the above connection

1 Set the "DIGITAL" in "AUDIO SETUP" to "BITSTREAM" (see page 58).

NOTE

- To play a disc recorded with DTS, you need to use DTS processor or amplifier.
- This connection is not possible if the processor or amplifier to which you want to connect does not have an optical digital input jack.
- Refer to the operation manual for the processor or amplifier for information about connecting to it.

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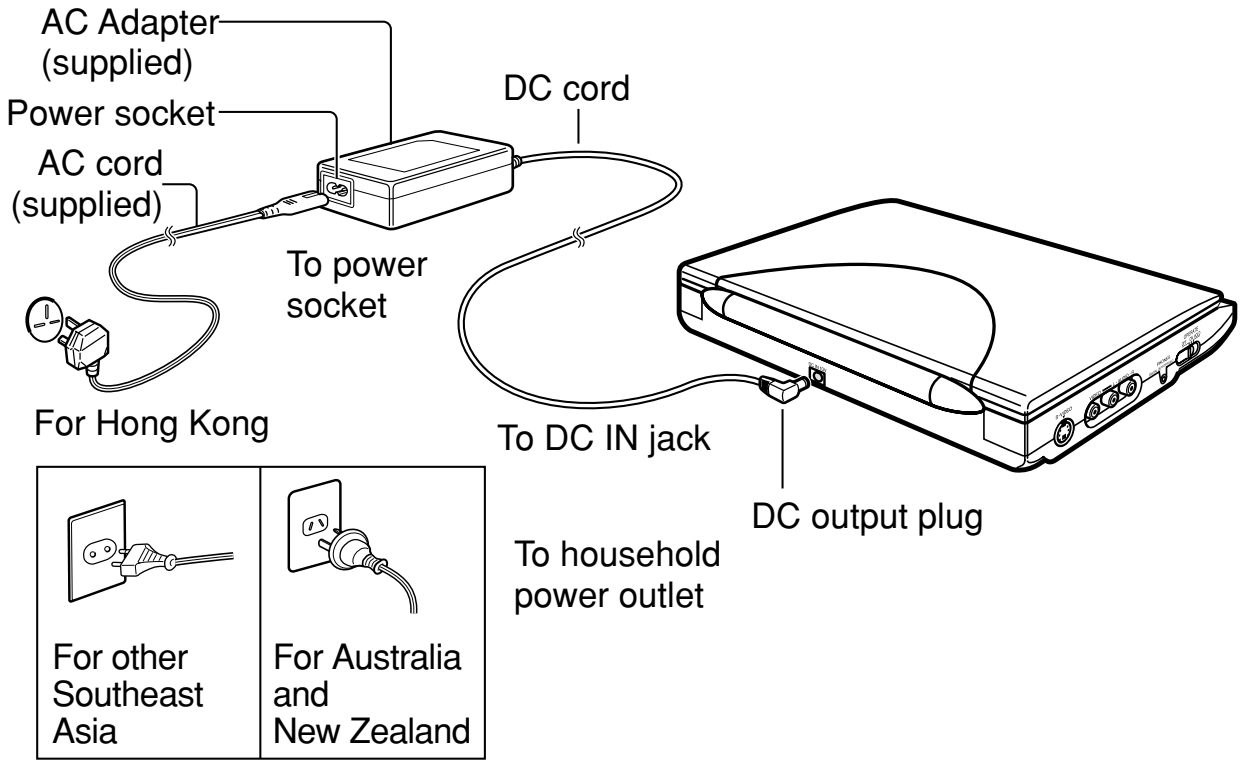
Using the AC Adapter



Important!

- Make sure that the Player's power is turned off before attaching or detaching the AC adapter.
- Use only the AC adapter specified for the Player. Use of another type of AC adapter can cause damage to and malfunction of the Player.
- The AC adapter may become warm after long-term use. This is normal and does not indicate malfunction.
- When not in use, be sure to unplug the AC adapter from the power outlet.
- Do not leave the AC adapter in areas subject to high humidity or dust. Such conditions create the danger of fire and electric shock.

CAUTION

Never use any commercially available electronic transformer.

- Connecting the AC adapter to an electronic voltage transformer of the type widely available at tourist shops can result in fire, electrical shock or other hazards.

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Using the Battery Pack

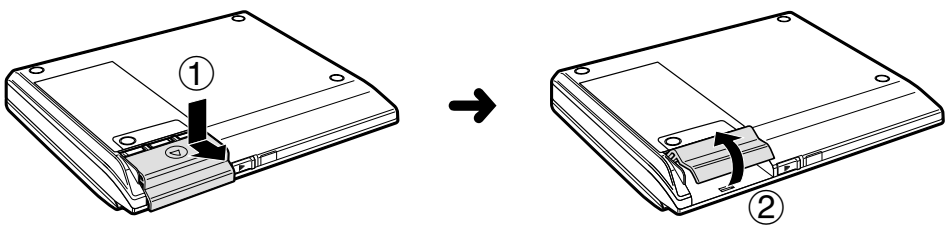
⚠CAUTION

- Use only SHARP model "BT-L300S" battery pack with this Player. Use of another battery may present a risk of fire or explosion.

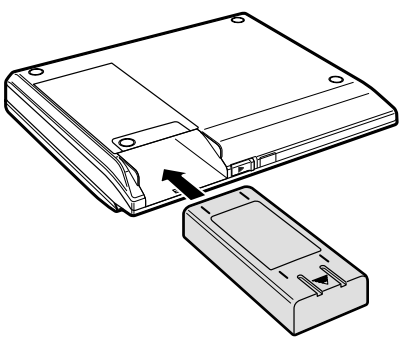
To install a battery pack in the Player

1 Make sure that the Player is turned off and then unplug the DC cord.

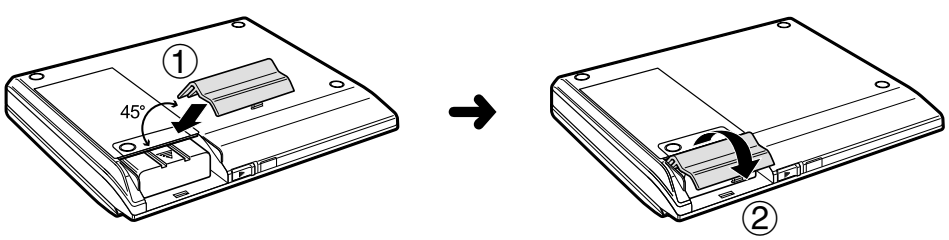
2 To open the battery pack compartment cover, while pressing at the ▽ mark, slide the cover forwards (①), and raise it upwards (②).



3 Slide the battery pack into Player's battery pack compartment in the direction indicated by the arrow as far as it locks firmly with a click.



4 Slide the battery pack compartment cover along the ridges of the battery pack at about 45° until the two tabs of the cover are at their original location (①), and lower the cover to close it (②).



⚠CAUTION

- When turning off the power, while using the battery pack, make sure to slide the Player's **OPERATE** switch to "OFF".

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Important!

- Do not apply excessive force to the battery pack compartment cover when opening it.
- Make sure that the battery pack is positioned correctly when you install it in the Player. Positioning it wrong can cause malfunction.
- The battery pack needs time to initialize whenever you install it in the Player. Wait for about three seconds after attaching it to turn on power.
- Remove the battery pack from the Player when you finish using it.

To charge the battery pack

Use the AC adapter that comes with the Player to charge the battery pack.

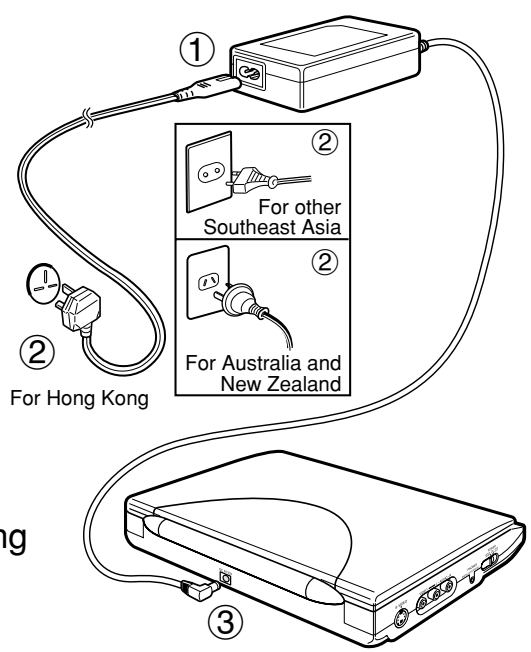
- Before charging the battery pack, make sure that the battery pack is firmly installed in the Player. See “To install a battery pack in the Player” on page 36.

1 Plug the AC cord into the power socket of the AC adapter (①).

- Push the cord straight into the AC adapter as far as it can go.

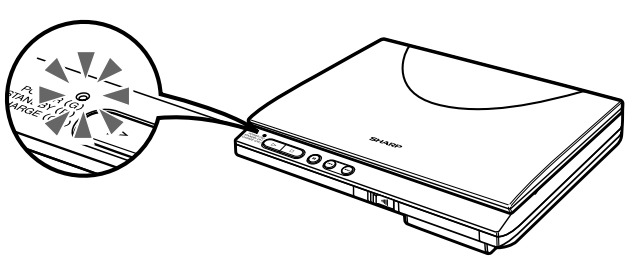
2 Plug the other end of the AC cord into a household power outlet (②).

3 Plug the DC cord into the DC IN jack on the rear of the Player (③).



Indicator Lamp

The Indicator lamp lights orange while charging is in progress, and goes out when the battery pack is fully charged.



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Using the Battery Pack

Important!

- Make sure that the Player's power is turned off before attaching or detaching the AC adapter.
- A battery pack that is installed in the Player does not charge while the Player is turned on. Turn power off in order to charge the battery pack.
- When not using the battery pack, remove it from the Player.
- Before storing a battery pack, fully discharge it by using it to power Player operation. At least every six months, charge a stored battery pack and use it to power the Player.

NOTE

- The battery pack becomes warm when charging. This is normal and does not indicate abnormality.
- If the Indicator lamp flashes orange at high speed or does not light orange when charging, it could mean the battery pack is faulty. See "Troubleshooting" on page 106.

Using the AC adapter with the battery pack

- You can charge the battery pack while it is installed in the Player by connecting the AC adapter to the Player and turning off Player power.
- **The Player is powered by the AC adapter if you turn it on under the above conditions. The battery pack is not charged while Player power is turned on.**

Charge time

Charge time	Approximately 5 hours

- The charge time noted here is the time required to bring a fully depleted battery pack to full charge.
- Cold conditions and the condition of the battery pack may cause the required charge time to be longer.

DVD continuous play time

DVD continuous play time (Using speakers)	Approximately 3 hours
DVD continuous play time (Using headphones)	Approximately 4 hours

- The DVD continuous play time is a reference value indicating maximum play time with normal display brightness at 20°C.
- Play time may be shorter due to disc type, temperature, battery condition, and speaker volume.

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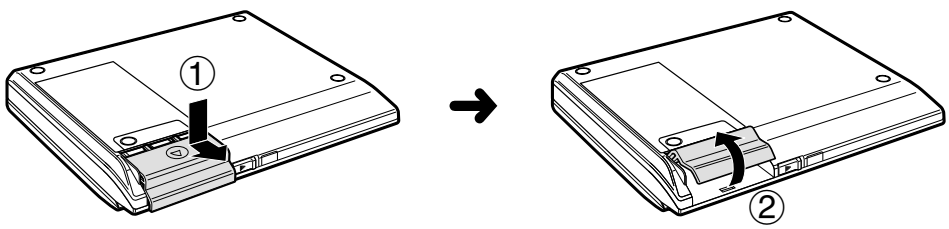
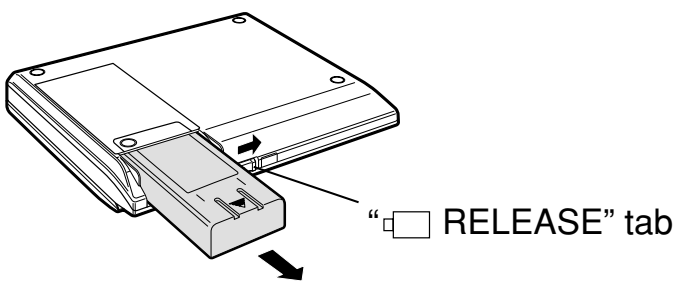
To remove the battery pack from the Player

1 Make sure the Player's power is turned off and then unplug the DC cord.

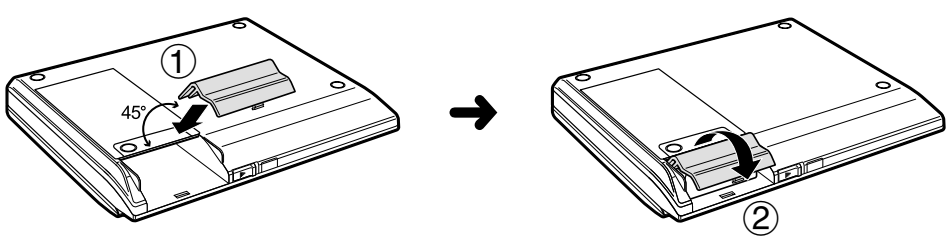
2 To open the battery pack compartment cover, while pressing at the ▽ mark, slide the cover forwards (①), and raise it upwards (②).



3 While holding the "▭ RELEASE" tab to the right, pull out the battery pack in the direction indicated by the arrow.



4 Slide the battery pack compartment cover into its original location at about 45° (①), and lower the cover to close it (②).



! Important!

- Never remove the battery pack while a playback operation is in progress.

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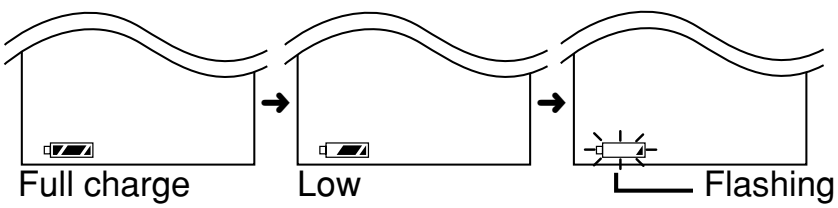
Battery Capacity Indicator

- The battery capacity indicator appears only while the display mode is “on”. The indicator appears for a short while and then disappears.
- Battery condition, temperature, and operational conditions affect the remaining capacity of a battery. Because of this the battery capacity indicator is intended to be for reference purposes only.
- Regardless of the display mode, the low battery warning appears on the display whenever the battery is about to go dead.
- The low battery warning does not appear when the display panel is closed. When the Indicator lamp flashes green, replace the battery pack with a charged one or switch to AC adapter power.



NOTE

- The low battery warning is being displayed until the battery goes dead. When the battery goes dead, the Indicator lamp turns off. When this happens, replace the battery pack with a charged one or switch to AC adapter power.

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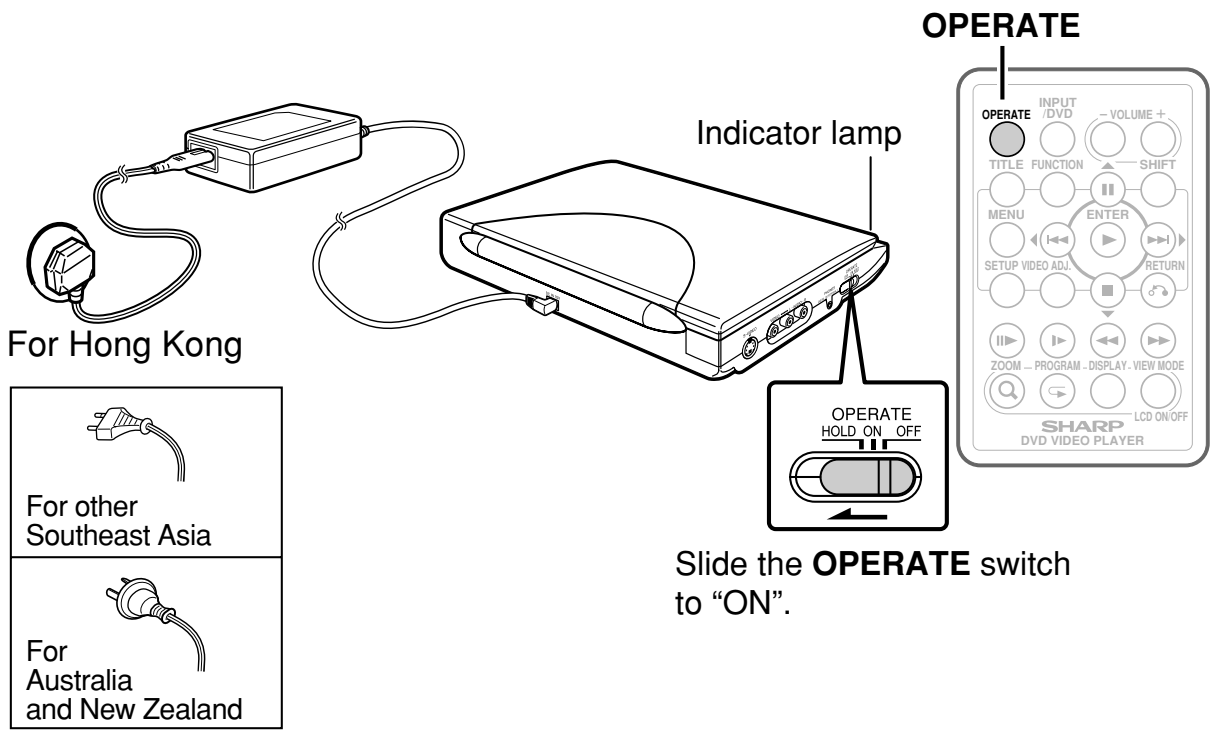
Turning Power On and Off

To turn power on and off



- With the **OPERATE** switch, you can change the power mode to "ON" or "OFF".

Hold mode

- To avoid pressing the wrong button by mistake, you can slide the **OPERATE** switch to "HOLD" to disable all buttons on the Player.

NOTE

- Even when the Player is in Hold mode, you can operate it using the buttons on the Remote.

- In the following cases, the Indicator lamp on the front of the Player lights green to let you know that power is on. This helps to ensure you do not forget and leave power on.
  ① When the display panel is closed with the Player's power turned on
  ② When the LCD display setting is "off" (see page 70)

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Standby mode

The Player goes into the Standby mode (Indicator lamp lights red) in the following cases.

- When you use the **OPERATE** button on the Remote to turn off the Player. Press again the **OPERATE** button on the Remote to cancel the Standby mode.
- When you leave the Player in the DVD mode without a disc inside or playback is stopped for more than 5 minutes.
- When no video signal is received for more than 5 minutes in INPUT mode.

NOTE

- When not in use, unplug the AC adapter from the power outlet.
- The power supply circuit performs an initialization routine immediately after you connect the AC adapter or install a battery pack. Because of this, you should wait for about three seconds before turning on power.

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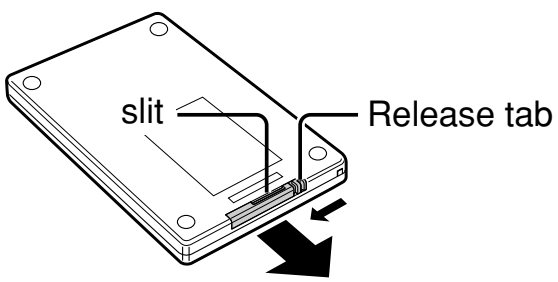
Using the Remote Control

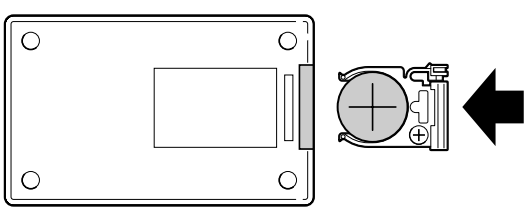
Installing the battery in the Remote

1 Holding the release tab to the left, slide the battery holder from the Remote with your fingernail catching the slit.



2 Place a lithium battery into the battery holder and slide the battery holder back into place.

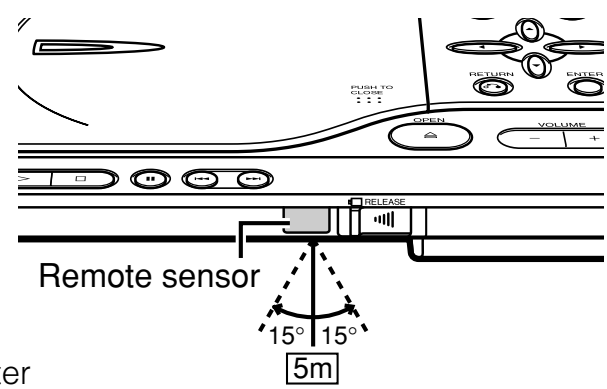
- Make sure the ⊕ side of the battery is facing in the same direction as the ⊕ mark on the battery holder. The remote control will not operate correctly if you insert the battery upside-down.



Operating range of the Remote

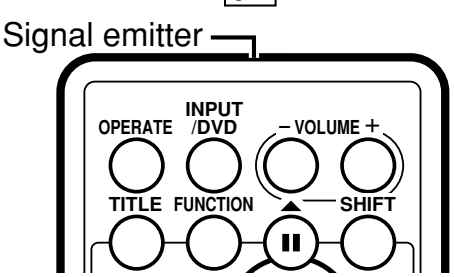
! Important!

- Do not subject the Remote to strong impact.
- Do not allow the Remote to become wet and keep it out of areas subject to high humidity.



NOTE

- The Remote may fail to work properly after you replace its battery. When this happens, remove the battery and leave it out for at least five minutes. Next, reload the battery and try again.
- The Remote may not work properly if the remote sensor of the Player is in direct sunlight or other strong light. Change the orientation of the light or the Player and try again.
- If you do not plan to use the Remote for a long time, remove its battery.



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Notes on the Use of the Lithium Battery

REPLACE BATTERY WITH TOSHIBA OR HITACHI MAXELL TYPE CR2025 ONLY. USE OF ANOTHER BATTERY MAY PRESENT A RISK OF FIRE OR EXPLOSION.

WARNING

- KEEP THIS BATTERY AWAY FROM CHILDREN. IF SWALLOWED, CONSULT A PHYSICIAN IMMEDIATELY FOR EMERGENCY TREATMENT.
- BATTERY MAY EXPLODE IF MISTREATED. DO NOT RECHARGE, DISASSEMBLE OR DISPOSE OF IN FIRE.

- Do not short-circuit, recharge, disassemble, or heat the lithium battery.
- Should the lithium battery leak, wipe the battery compartment and holder clean, and then insert a new battery.
- The lithium battery will last about six months to one year of normal usage.
- Purchase the Remote's replaceable lithium battery from your Sharp authorized service centre.

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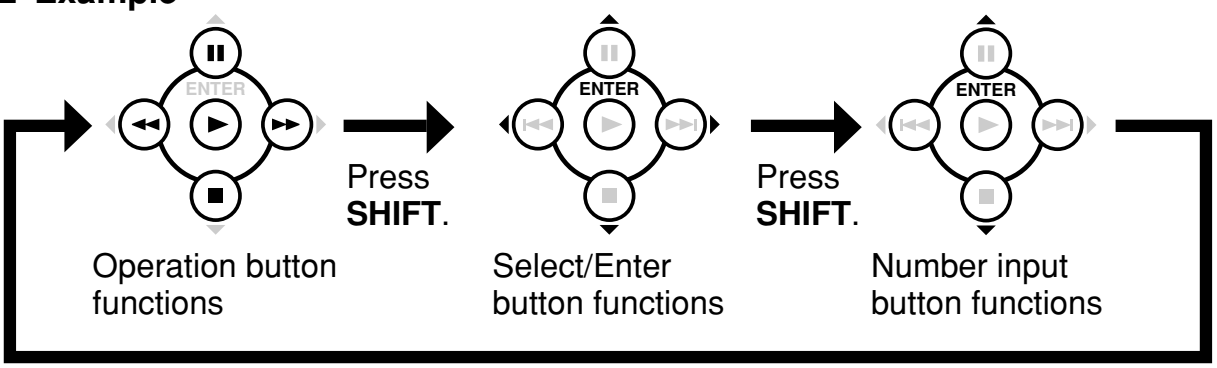
Switching Operation Buttons to Select/Enter Buttons

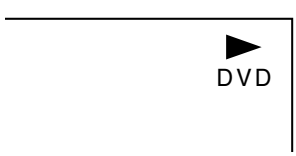
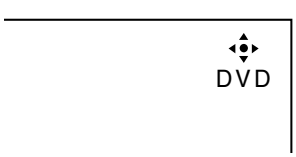
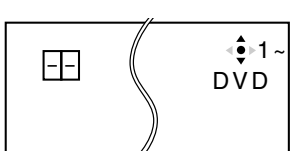
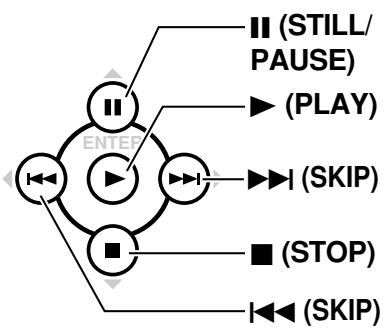
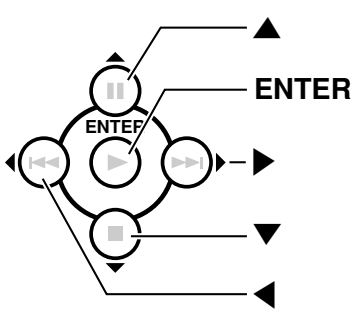
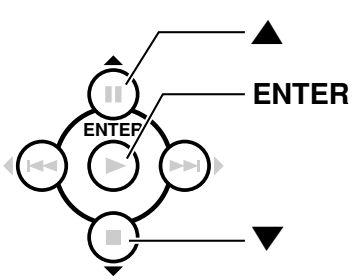
You can use the operation buttons of the Remote to select options and to enter the currently selected option on a menu screen or Function control screen. Each press of **SHIFT** cycles the button function.

Screen type and button functions

Each press of **SHIFT** cycles the button functions as shown below.

■ **Example**



	Operation buttons	Select/Enter buttons	Number input buttons
Screen			
Remote Control			

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Switching Operation Buttons to Select/Enter Buttons

■ Button Functions

	Operation buttons	Select/Enter buttons	Number input buttons
	Playback	Enter	Enter
	Stop	▼ Move down	▼ Move down
	Still/Pause	▲ Move up	▲ Move up
	Skip forward	▶ Move right	–
	Skip back	◀ Move left	–

- The above operations are not possible with certain types of discs.
- The functions of the operation buttons on the Remote change automatically to select/enter when following screens are on the display: Function control screen, Setup screen, Video adjust screen, Program screen, Menu screen, Title menu screen.
  Pressing **SHIFT** while one of the above screens is on the display toggles the Remote's operation button functions between operation and select/enter. See the sections covering each of the above displays for full details. (While one of the above screens is on the display, the operation buttons do not function as number input buttons.)
- You cannot change the button function while the Video adjust screen or Program screen is on the display in the DVD mode.

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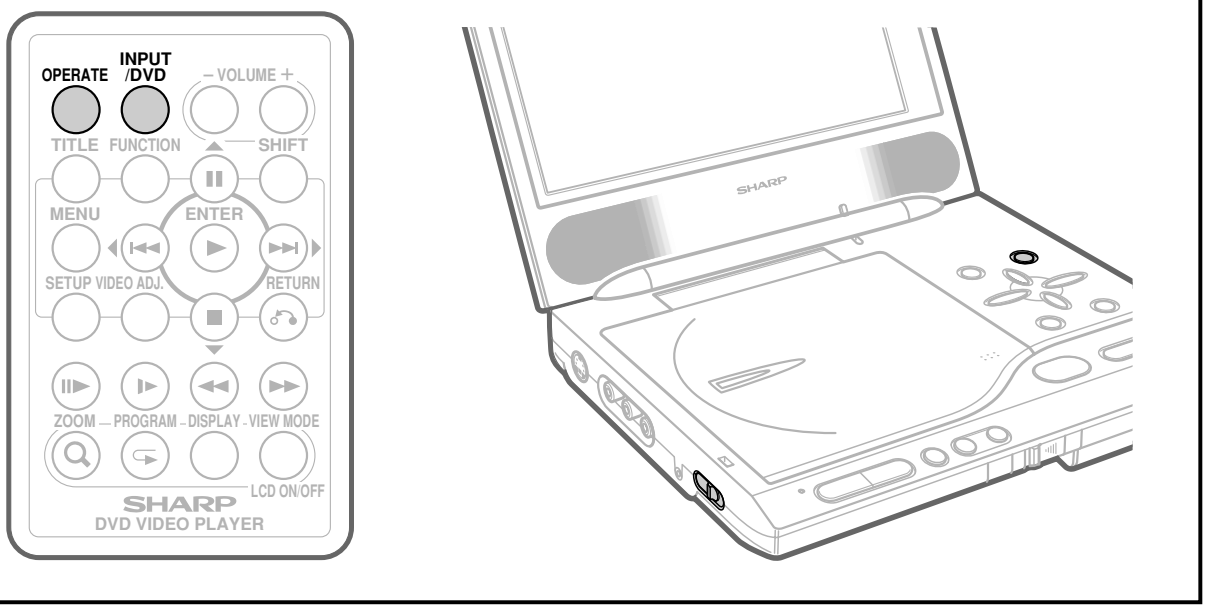
Operation Modes

Your Player has two operation modes. Select the one that suits the operation you want to perform.

- DVD mode for disc playback
- INPUT mode for input from external equipment



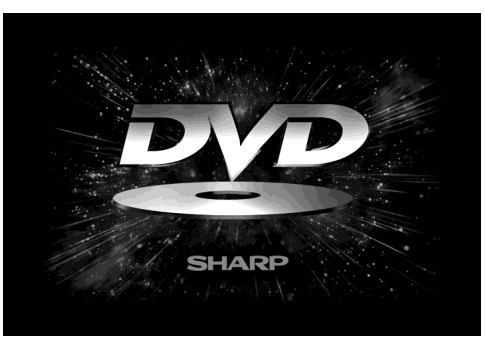
To select an operation mode

1 Slide the **OPERATE** switch to “ON”.

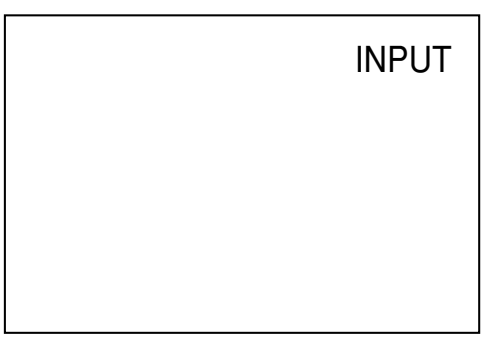
2 Press **INPUT/DVD**.

- Each press of **INPUT/DVD** toggles between the DVD mode and the INPUT mode.

DVD mode



INPUT mode



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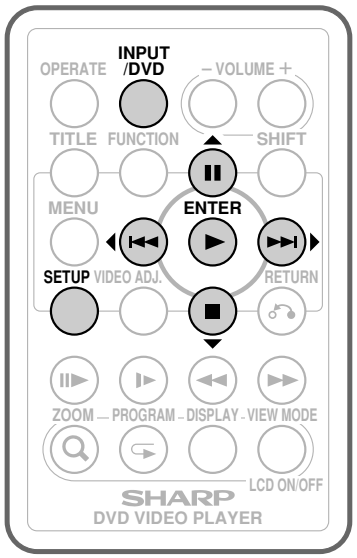
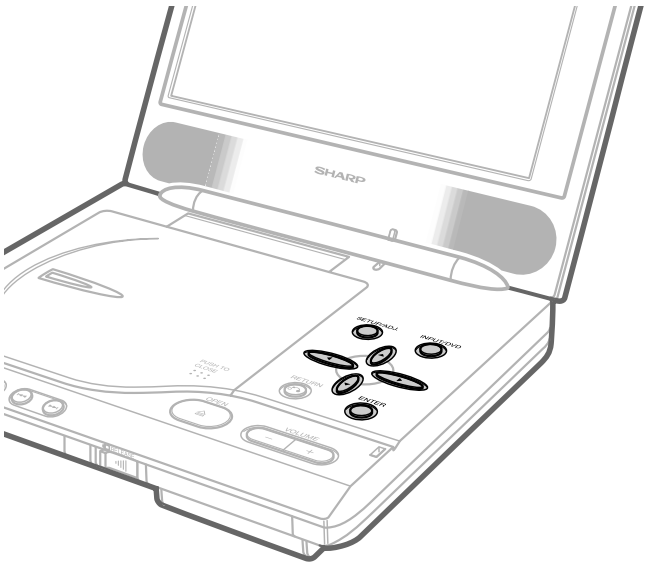
Setup





Initial setup (OSD LANGUAGE SETUP)

When you use the Player for the first time, you should set the language to be used for the OSD (On Screen Display).

1 Press **INPUT/DVD** a number of times until you enter the DVD mode.

2 Press **SETUP** while a disc is stopped.
- "OSD LANGUAGE SETUP" screen appears.

3 Use ▲, ▼, ◀ or ▶ to select the language you want to use.

4 Press **ENTER** to confirm the setting.

NOTE

- After the second time when you press **SETUP**, the screen in the language that you selected in step 3 above appears immediately.
- You can change OSD LANGUAGE whenever you want. For details, please refer to "OSD LANGUAGE SETUP setting" on page 63.

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TV MODE SETUP setting

The following describes how to select the DVD playback display format.

Viewing on the Player Screen or a Wide Screen TV

Using a 16:9 Wide Image

Select 16:9 for wide DVD video output.

- A wide image size is output when playing a wide image disc.
- When playing a 4:3 image disc, you can select the image size you want for the Player screen or connected TV (see page 64).

Viewing on a 4:3 Size TV

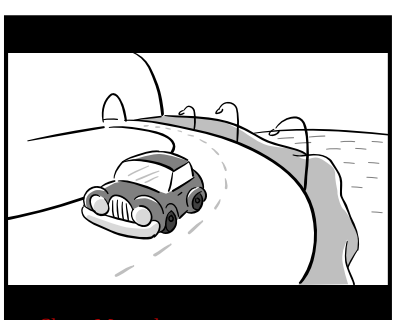
Using Pan Scan

Select 4:3 PS for wide DVD video output.

When playing a wide image disc, the left and right sides of the image are cut (pan scan) to output a natural-looking 4:3 size image.
A wide image disc without pan scan PS is played back in letter box.
A 4:3 disk is played as-is in 4:3.

Using Letter Box

Select 4:3 LB for wide DVD video output.



When playing a wide image disc, black bands are inserted at the top and bottom and a 4:3 size image is output.
A 4:3 disk is played as-is in 4:3.

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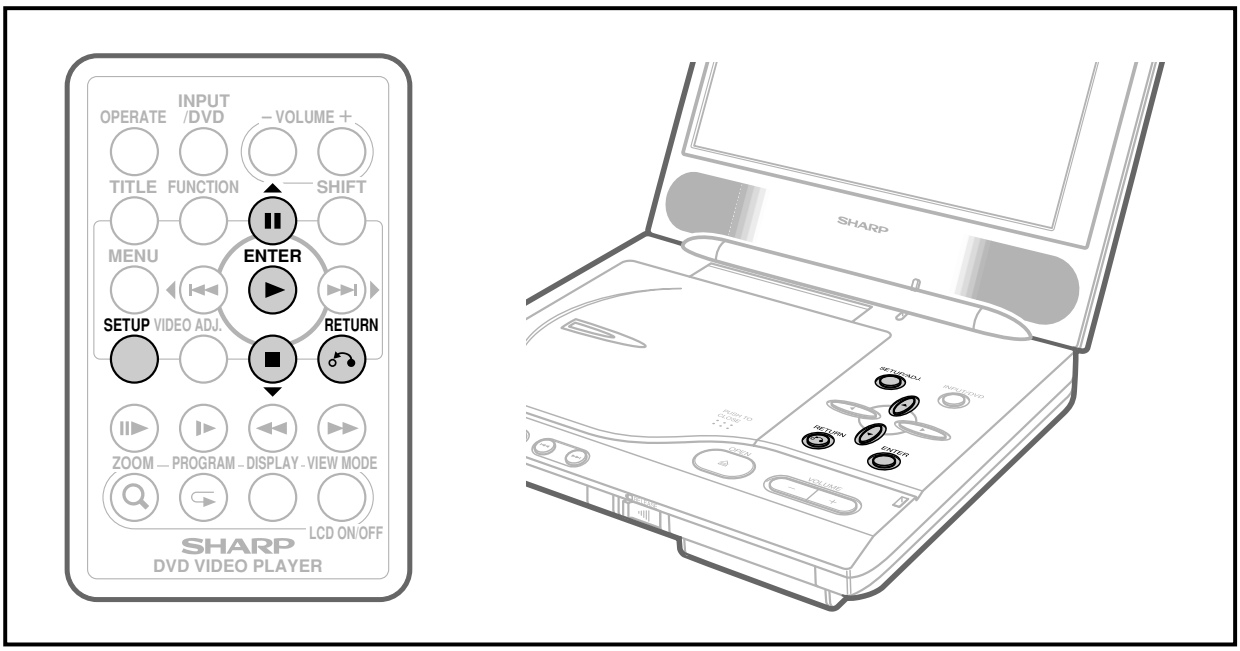
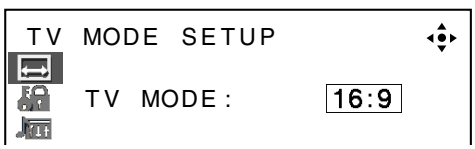


Setting the TV MODE

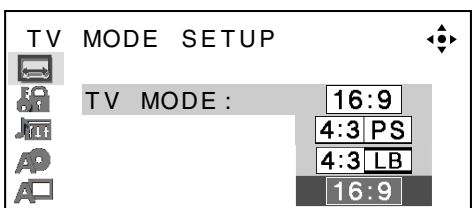
1 While a disc is stopped, press **SETUP** to display the Setup screen.

2 Use ▲ or ▼ to select the " TV MODE SETUP".



3 Press **ENTER** to display the items you can select.

4 Use ▲ or ▼ to select "4:3 LB", "4:3 PS" or "16:9".



5 Press **ENTER** to confirm the "TV MODE" setting.

- To exit the Setup screen and return to the Startup screen, press **SETUP** or **RETURN**.

NOTE

- You cannot open the Setup screen while a playback operation is in progress. If a disc is playing, stop playback first.
- If you select 16:9 while a 4:3 TV is connected, playing a 16:9 disc displays a vertical image screen. (Black bands appear at the top and bottom of the screen.)

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PARENTAL SETUP setting

Parental level

Certain discs come preset with country codes and parental level settings that are defined for particular countries. Discs equipped with the parental lock function are rated according to their content. The rated content allowed by a parental lock level and the way a DVD can be controlled may vary from disc to disc. Some discs, for example, may let you edit out violent scenes and replace them with scenes more suitable for viewing by children. You can also use the parental lock to disable playback of the DVD entirely.

This Player supports the following parental level settings.
PARENTAL LEVEL .... Defines the parental level, which controls the types of scenes that are played back from a disc.
CODE ..... Allows selection of a country code available on a disc.

NOTE

- You can use the parental lock function only with DVDs that are equipped with the parental lock feature.
- The parental level depends on countries. If you do not set the country code correctly, it fails to work correctly.

Player parental level settings

Level 1: for general viewing (highly restricted level that can be viewed by anyone. Sensational scenes are cut or replaced with other scenes.) → Level 8: for adults only (a level to be viewed by adults only. Unrestricted view of any scene)
(The smaller the number, the greater the level of restriction.)

NOTE

- When “PARENTAL LEVEL” is set to “OFF”, DVD discs can be played back regardless of the parental level.
- On some DVDs, the parental level setting is fixed and cannot be modified.

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Country Codes

This Player supports country codes for the following countries.

Country Code List

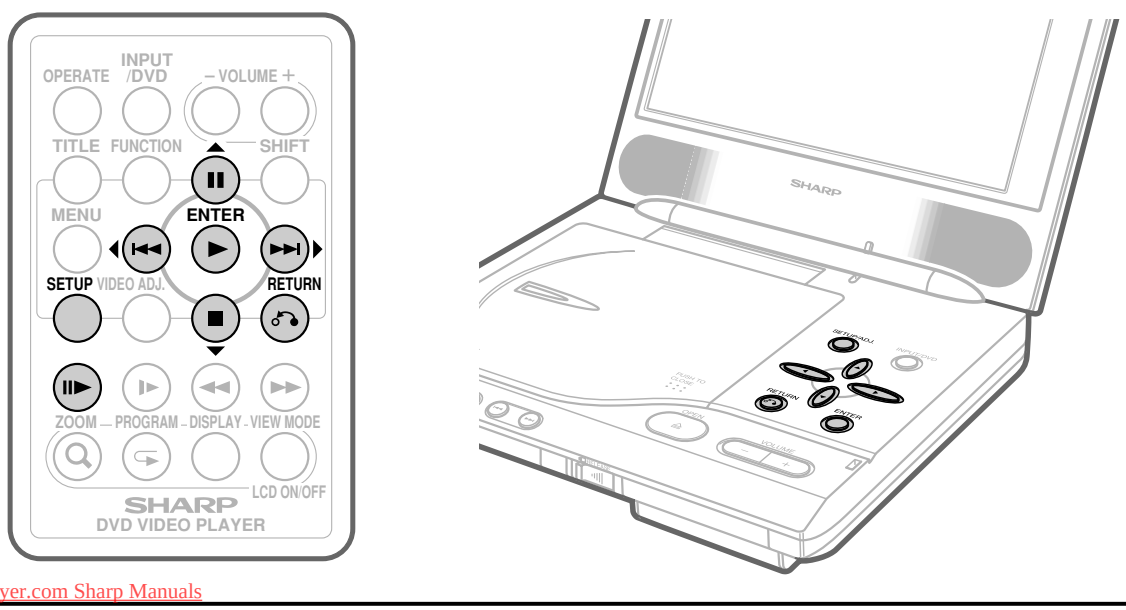
USA	SWEDEN	MALAYSIA
CANADA	HOLLAND	INDONESIA
JAPAN	NORWAY	TAIWAN
GERMANY	DENMARK	PHILIPPINE
FRANCE	FINLAND	AUSTRALIA
UK	BELGIUM	RUSSIA
ITALY	HONG KONG	CHINA
SPAIN	SINGAPORE	–
SWISS	THAILAND	–

Passwords

The parental level setting of the Player can be protected by a password against unauthorized changes. Once you set a password, it must be input to perform the following operations.

- To change the parental level
- To temporarily change the parental level during playback

Setting the parental level for the first time



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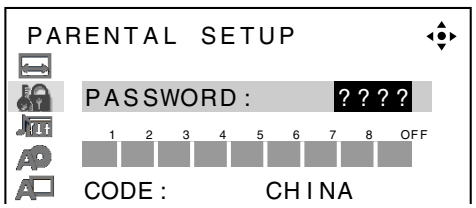
1 While a disc is stopped, press **SETUP** to display the Setup screen.

2 Use ▲ or ▼ to select the " PARENTAL SETUP".

3 Press **ENTER** to display the password specification screen.



4 Use ▲, ▼, ◀ or ▶ to enter a 4-digit password.
- Press ▲ or ▼ to select the number.
- Press ◀ or ▶ to move to the place where you enter the number.

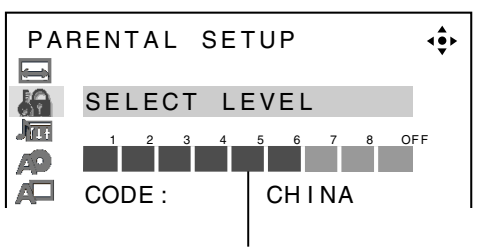
- When you have finished entering your 4-digit number, ⊟⊟⊟⊟ (password verification display) appears.

NOTE
- You must input the correct password to make any changes in the parental level. Be sure to keep a separate record of your password somewhere for later reference.
- Some DVDs allow the viewer to temporarily change the parental level setting to view the original scenes. When this prompt appears, input the password to view the original scenes.

5 Make sure ⊟⊟⊟⊟ is displayed and then re-enter the numbers you entered in step 4 using ▲, ▼, ◀ or ▶.
- When entering numbers, ⊟ changes to ⊛ digit by digit. Make sure all digits are changed to ⊛ before performing step 6.
- If you enter the wrong number three times in succession, the normal screen reappears.

If you forget your password, you can erase your current password by pressing **II► (F.ADV)** four times.

6 After the screen on the right appears, use ◀ or ▶ to change the parental level.
- Level 1: for most restrictive viewing → Level 8: for adult viewing
  (The smaller the number, the greater the level of restriction.)
- When the parental level is set to "OFF", DVDs can be played back regardless of the parental level.



Can be changed to any number between 1 and 8 or OFF.

SETTING UP

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7 Press ▼ to select “CODE” and then use ◀ or ▶ to select the desired country code. (See page 52.)

8 Press **ENTER** to confirm the setting.
- To exit the Setup screen and return to the Startup screen, press **SETUP** or **RETURN**.

Important!
- Be sure to try playing back the disc to confirm that the parental level setting is working correctly. If it is not working correctly, try changing the country code.

Changing the parental level

1 While a disc is stopped, press **SETUP** to display the Setup screen.

2 Use ▲ or ▼ to select the “ PARENTAL SETUP”.

3 Press **ENTER** to display the password verification screen.

4 Use ▲, ▼, ◀ or ▶ to enter the 4-digit password that was set previously.
- Press ▲ or ▼ to select the number.
- Press ◀ or ▶ to move to the place where you enter the number.

- If you enter the wrong number three times in succession, the normal screen reappears.
- When entering numbers, ⊟ changes to ⊛ digit by digit. Make sure all digits are changed to ⊛ before performing step 5.

If you forget your password, you can erase your current password by pressing **II▶ (F.ADV)** four times.

5 After the screen for selecting level appears, use ◀ or ▶ to change the parental level.

6 Press ▼ to select “CODE” and then use ◀ or ▶ to select the desired country code. (See page 52.)

7 Press **ENTER** to confirm the setting.
- To exit the Setup screen and return to the Startup screen, press **SETUP** or **RETURN**.

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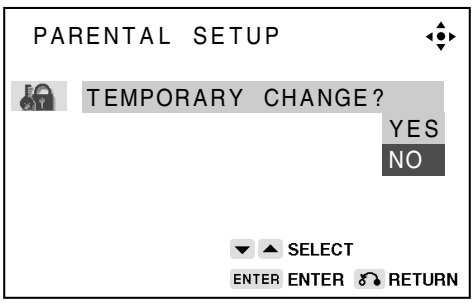
Temporary parental level setting

Some DVDs will prompt the viewer to temporarily change the parental level. In this event, the following screen appears.



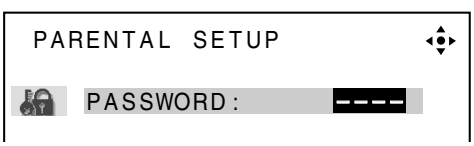
When this screen appears, use the procedure described below to temporarily change the level.

1 Use ▲ or ▼ to select “YES” or “NO”.

YES: Temporarily changes the parental level (sets the level to a value other than the current setting (page 53)).

NO: Does not change the parental level (maintains the current level (page 53)).

2 Press **ENTER**.



- If “NO” was selected in step 1, the normal screen reappears.
- If “YES” was selected in step 1, the screen shown on the right appears.
- To temporarily change the parental level, enter your password (page 53) and confirm the password. The setting automatically changes temporarily to the disc-specific parental level.
- When you have completed the temporary change procedure, press **ENTER**. (The normal screen reappears.)

NOTE

- This change only applies while the current disc is being played.

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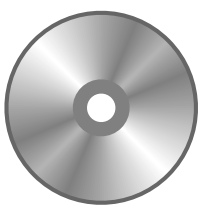
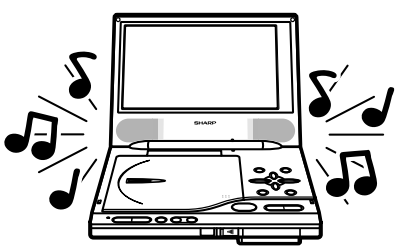
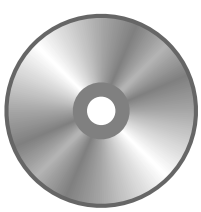
AUDIO SETUP setting

COMPRESSION ..... Use this setting for increasing the average volume of Dolby Digital audio when playing a DVD.

DIGITAL/MPEG .... Use these settings for specifying the type of digital output when playing a disc recorded using Dolby Digital/MPEG Audio.

Setting the COMPRESSION (Dolby Digital output level)

When Dolby Digital is used to record the audio on a DVD, the average overall volume level of the audio is relatively lower than that produced by a VIDEO CD/ Audio CD. This is to provide the widest possible dynamic range. To counteract this, your Player automatically raises the overall average volume level of a disc recorded using Dolby Digital to a level that is similar to that of a VIDEO CD/ Audio CD.

	COMPRESSION: OFF	COMPRESSION: ON
 DVD Dolby Digital audio	• Low audio level	 • Audio level the same as Audio CD, etc.
 VIDEO CDs Audio CDs		

- OFF ..... Audio level recorded on disc is played back without modification.
- ON ..... Dolby Digital average audio level is increased so it sounds similar to that of a VIDEO CD/Audio CD.

- Use of the “OFF” setting is recommended when the Player is connected to audio equipment or, depending on the disc, the sound is abnormal.
- VIRTUAL DOLBY (QSURROUND) is disabled when “COMPRESSION” is set to “ON”.

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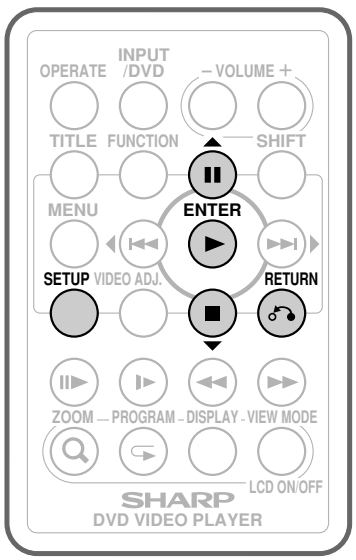
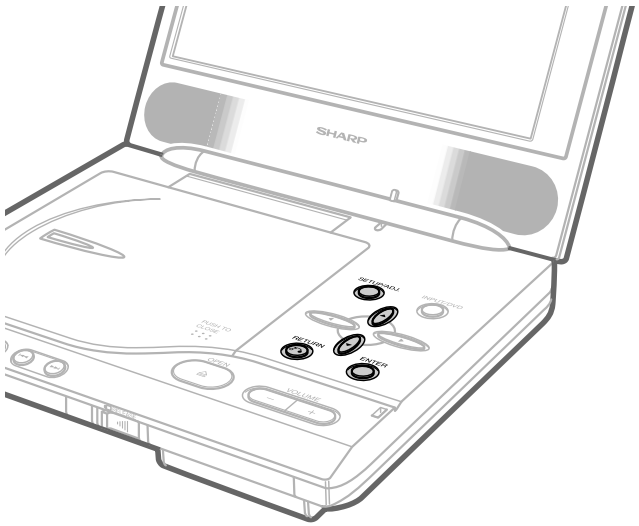
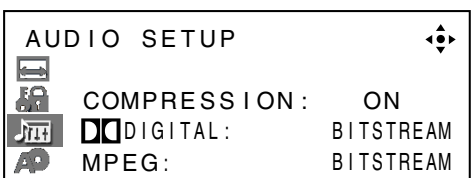




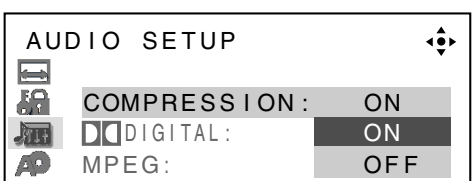
1 While a disc is stopped, press **SETUP** to display the Setup screen.

2 Use ▲ or ▼ to select the " AUDIO SETUP".



3 Press **ENTER** and then use ▲ or ▼ to select "COMPRESSION".

4 Press **ENTER** to display the settings you can select.



5 Use ▲ or ▼ to select "ON" or "OFF".
- Use of the "OFF" setting is recommended when the Player is connected to audio equipment.

6 Press **ENTER** to confirm the setting.
- To exit the Setup screen and return to the Startup screen, press **SETUP** or **RETURN**.

NOTE

- Whenever the "COMPRESSION" setting is "ON", VIRTUAL DOLBY setting is changed to "OFF" automatically.

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Setting the DIGITAL OUT

When playing a disc recorded using Dolby Digital (5.1ch)/MPEG Audio (5.1ch), you can specify either “BITSTREAM” or “D-PCM”/“PCM” as the digital type output.

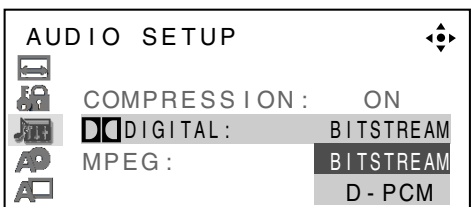
Setting the DOLBY DIGITAL

1 While a disc is stopped, press **SETUP** to display the Setup screen.

2 Use ▲ or ▼ to select the “ AUDIO SETUP”.

3 Press **ENTER** and then use ▲ or ▼ to select “ DIGITAL”.

4 Press **ENTER** to display the settings you can select.



5 Use ▲ or ▼ to select “BITSTREAM” or “D-PCM”.

BITSTREAM: Use this setting for a digital connection of a receiver (amplifier) equipped with a Dolby Digital decoder.

D-PCM: (Down Mix PCM) Use this setting for a digital connection to the PCM digital input jack of a DAT or MD, or for a digital connection to a receiver (amplifier) that does not have a Dolby Digital decoder.

6 Press **ENTER** to confirm the setting.

- To exit the Setup screen and return to the Startup screen, press **SETUP** or **RETURN**.

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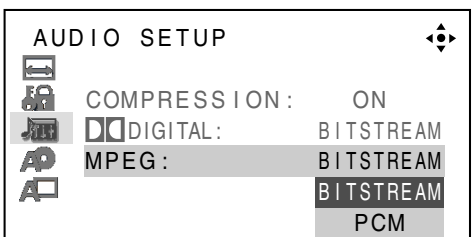
Setting the MPEG

1 While a disc is stopped, press **SETUP** to display the Setup screen.

2 Use ▲ or ▼ to select the " AUDIO SETUP".

3 Press **ENTER** and then use ▲ or ▼ to select "MPEG".

4 Press **ENTER** to display the settings you can select.



5 Use ▲ or ▼ to select "BITSTREAM" or "PCM".

BITSTREAM: Use this setting for a digital connection of a receiver (amplifier) equipped with an MPEG Audio decoder.

PCM: Use this setting for a digital connection to the PCM digital input jack of a DAT or MD, or for a digital connection to a receiver (amplifier) that does not have an MPEG Audio decoder.

6 Press **ENTER** to confirm the setting.

- To exit the Setup screen and return to the Startup screen, press **SETUP** or **RETURN**.

- When playing a disc recorded using DTS, the bitstream type signal is output regardless of the setting of " DIGITAL" and "MPEG".

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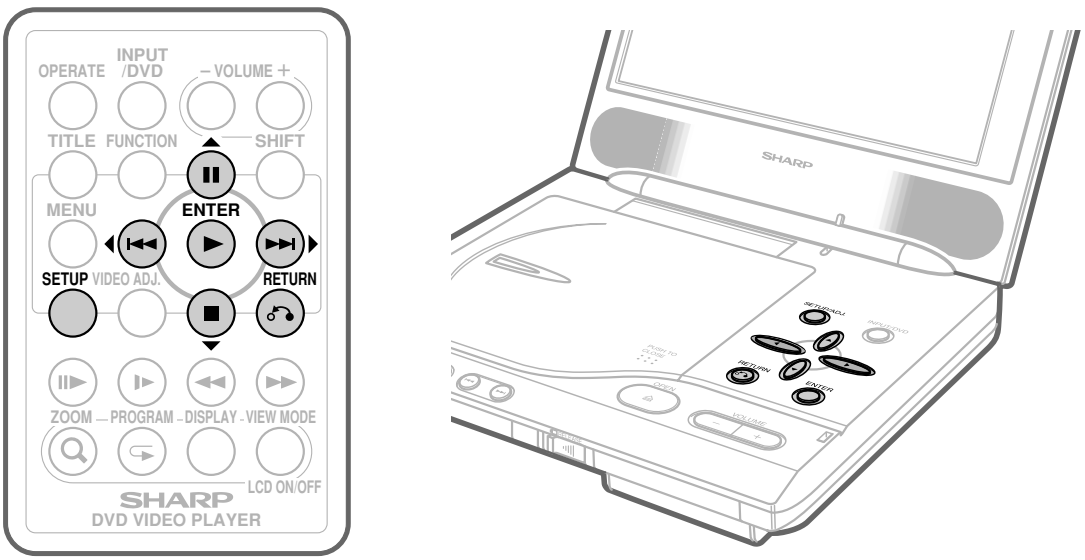


DISC LANGUAGE setting

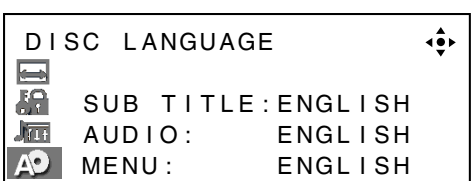
Use this setting for selecting languages of subtitle, audio track and disc menu.

- Note that the language you select is not displayed or does not sound if it is not recorded on the disc you are playing.
- With some discs, it is intentionally disabled by the disc manufacturer to change the language of the subtitle, audio track and disc menu through this setup screen. When playing such discs, try using **FUNCTION** (page 77).

Setting SUBTITLE, AUDIO and MENU languages from 8 languages

1 While a disc is stopped, press **SETUP** to display the Setup screen.

2 Use ▲ or ▼ to select the “ DISC LANGUAGE”.



3 Press **ENTER** and then use ▲ or ▼ to select “SUBTITLE”, “AUDIO” or “MENU”.
- You can set “SUBTITLE”, “AUDIO” or “MENU” individually.

4 After selecting the item, press **ENTER**.

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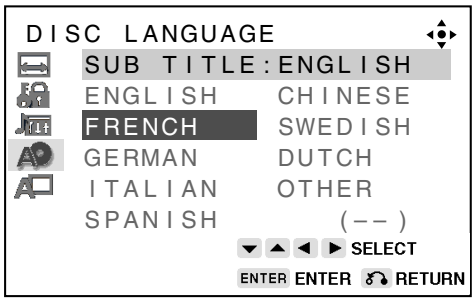
5 Select the language you want to use with ▲, ▼, ◀ or ▶.

- **If you want to use any languages which are not on OSD, proceed to step 1 under "Selecting a language from OTHER" below.**

(Example) Selecting "FRENCH"



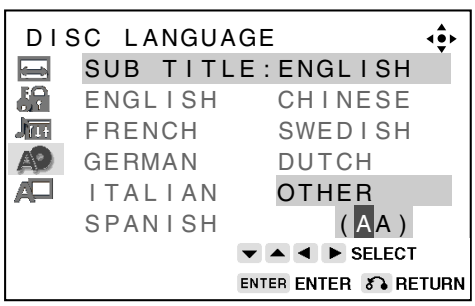
6 Press **ENTER** to confirm the setting.

7 Repeat steps 3 to 6 above to go on with other "DISC LANGUAGE" settings in succession.

- To exit the Setup screen and return to the Startup screen, press **SETUP** or **RETURN**.

Selecting a language from OTHER

1 In step 5 above, select "OTHER" with ▲, ▼, ◀ and ▶, then press **ENTER** to set the "OTHER" input item (two letters).



2 **Example: To select "AF" (Afrikaans)**
Use ▲ or ▼ to select "A" as the first letter, use ◀ or ▶ to move to the second place, then use ▲ or ▼ to select "F".

NOTE

- When "A" is selected for the first letter, only letters to the right of codes beginning with "A" can be selected as the second letter. Refer to the codes beginning with "A" on "**Language code list for Disc Language**" (see page 62).
  Example: First letter-A
  Second letter-A, B, F, M, R, S, Y or Z

3 Press **ENTER** to confirm the setting.

- To exit the Setup screen and return to the Startup screen, press **SETUP** or **RETURN**.

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Language code list for Disc Language

Code	Language Name	Code	Language Name	Code	Language Name	Code	Language Name
AA	Afar	FY	Frisian	MG	Malagasy	SL	Slovenian
AB	Abkhazian	GA	Irish	MI	Maori	SM	Samoan
AF	Afrikaans	GD	Scots Gaelic	MK	Macedonian	SN	Shona
AM	Ameharic	GL	Galician	ML	Malayalam	SO	Somali
AR	Arabic	GN	Guarani	MN	Mongolian	SQ	Albanian
AS	Assamese	GU	Gujarati	MO	Moldavian	SR	Serbian
AY	Aymara	HA	Hausa	MR	Marathi	SS	Siswat
AZ	Azerbaijani	HI	Hindi	MS	Malay	ST	Sesotho
BA	Bashkir	HR	Croatian	MT	Maltese	SU	Sundanese
BE	Byelorussian	HU	Hungarian	MY	Burmese	SV	Swedish
BG	Bulgarian	HY	Armenian	NA	Nauru	SW	Swahili
BH	Bihari	IA	Interlingua	NE	Nepali	TA	Tamil
BI	Bislama	IE	Interlingue	NL	Dutch	TE	Telugu
BN	Bengali;	IK	Inupiak	NO	Norwegian	TG	Tajik
	Bangla	IN	Indonesian	OC	Occitan	TH	Thai
BO	Tibetan	IS	Icelandic	OM	(Afan) Oromo	TI	Tigrinya
BR	Breton	IT	Italian	OR	Oriya	TK	Turkmen
CA	Catalan	IW	Hebrew	PA	Panjabi	TL	Tagalog
CO	Corsican	JA	Japanese	PL	Polish	TN	Setswana
CS	Czech	JI	Yiddish	PS	Pashto, Pushto	TO	Tonga
CY	Welsh	JW	Javanese	PT	Portuguese	TR	Turkish
DA	Danish	KA	Georgian	QU	Quechua	TS	Tsonga
DE	German	KK	Kazakh	RM	Rhaeto-	TT	Tatar
DZ	Bhutani	KL	Greenlandic		Romance	TW	Twi
EL	Greek	KM	Cambodian	RN	Kirundi	UK	Ukrainian
EN	English	KN	Kannada	RO	Romanian	UR	Urdu
EO	Esperanto	KO	Korean	RU	Russian	UZ	Uzbek
ES	Spanish	KS	Kashmiri	RW	Kinyarwanda	VI	Vietnamese
ET	Estonian	KU	Kurdish	SA	Sanskrit	VO	Volapük
EU	Basque	KY	Kirghiz	SD	Sindhi	WO	Wolof
FA	Persian	LA	Latin	SG	Sangho	XH	Xhosa
FI	Finnish	LN	Lingala	SH	Serbo-	YO	Yoruba
FJ	Fiji	LO	Laothian		Croatian	ZH	Chinese
FO	Faroese	LT	Lithuanian	SI	Singhalese	ZU	Zulu
FR	French	LV	Latvian, Lettish	SK	Slovak		

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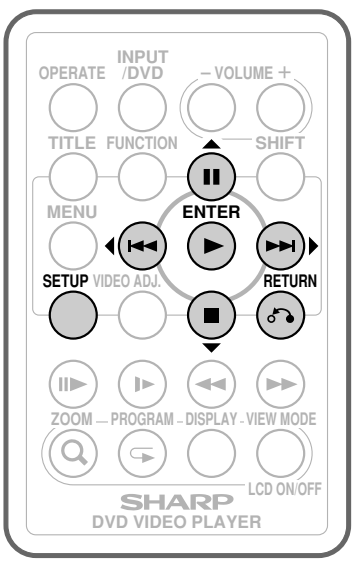

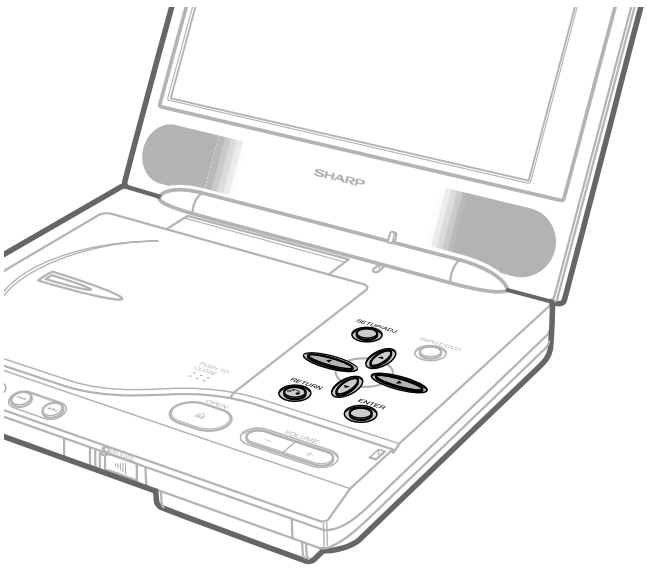

OSD LANGUAGE SETUP setting

1 While a disc is stopped, press **SETUP** to display the Setup screen.

2 Use ▲ or ▼ to select the " OSD LANGUAGE SETUP".

3 Press **ENTER** to display the languages you can select.

4 Use ▲, ▼, ◀ or ▶ to select the language you want to use.

5 Press **ENTER** to confirm the setting.

- To exit the Setup screen and return to the Startup screen, press **SETUP** or **RETURN**.

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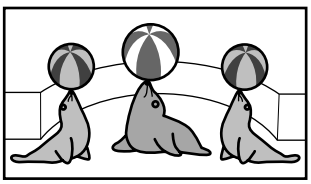
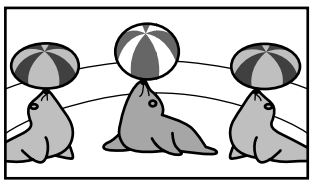
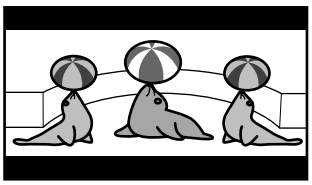
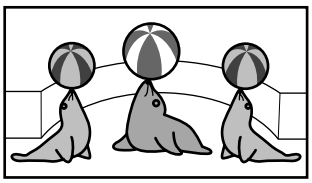
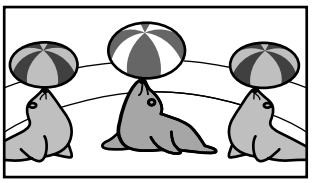
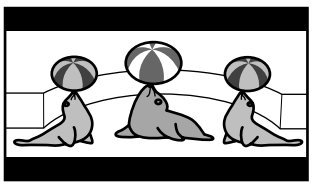
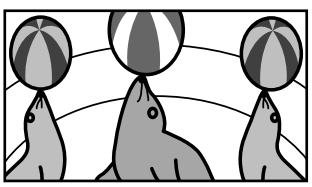
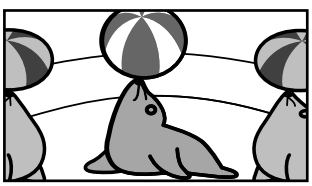
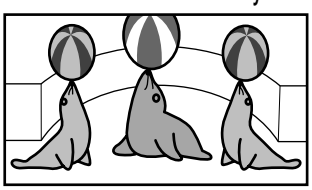
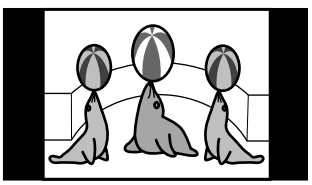
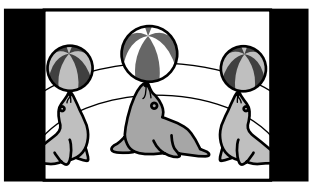
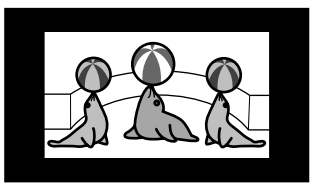
Screen Size Setting

When viewing a DVD on your Player screen, you select the screen size that best suits the image you are viewing.

To set the screen size

Mode \ Software Type	Wide	4:3	4:3 Letter Box
SMART STRETCH	Full Screen 	Image is stretched by its four corners. 	Image is stretched by its four corners. Top and bottom remain black. 
STRETCH	Full Screen 	Above screen stretched horizontally to fit. 	Screen stretched horizontally to fit. Top and bottom remain black. 
ZOOM	Top and Bottom Cut 	Above screen resided to fit, with top and bottom cut. 	Full Screen Screen stretched vertically to fit. 
SIDE BAR	Screen stretched vertically to fit. Left and right remain black. 	Left and right remain black 	Letter Box 

NOTE

- Using different screen size mode combinations from those shown above will produce images that are stretched horizontally or cut off at the top and bottom.

- The screen size mode automatically changes to “STRETCH” when you play a 16:9 wide image DVD with the “TV MODE” item of the “TV MODE SETUP” set to 16:9.

SETTING UP

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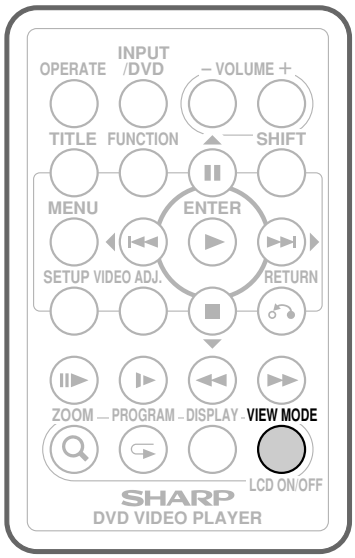

1 Press **VIEW MODE**.

SMART STRETCH

- Each press of **VIEW MODE** cycles through the screen size settings in the following sequence:

  ↱ STRETCH → ZOOM → SIDE BAR → SMART STRETCH ↰

NOTE

- The ZOOM mode uses a special process to stretch the image vertically. Compared with the original image, you may be able to notice some jagged lines or horizontal inside the stretched image. This does not indicate malfunction.

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Changing the Display Mode

To change the display mode

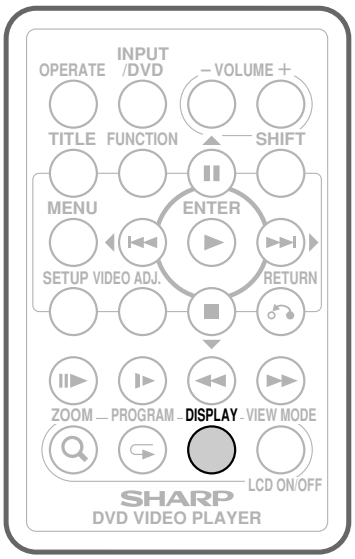
1 Press **DISPLAY**.

- Each press of **DISPLAY** cycles through the display mode settings in the following sequence: ┌→on→off→auto┐

auto ..... Display indicators appear for about three seconds and then disappear.

on ..... Display indicators remain displayed.

off ..... Display indicators are not displayed.



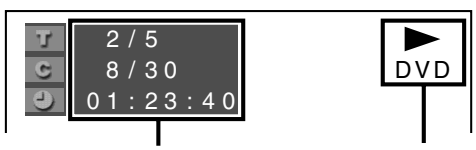
NOTE

- With some discs, chapter numbers and elapsed play time may not appear.

You can select “auto”, “on”, or “off” as the display mode. The following shows what appears on the display when “auto” or “on” is selected.

■ DVD Mode

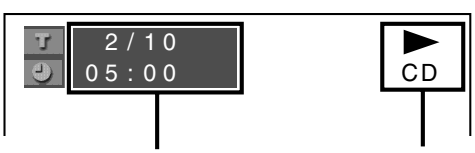
DVD



Title number/ Chapter number/ Elapsed play time

Operation indicator

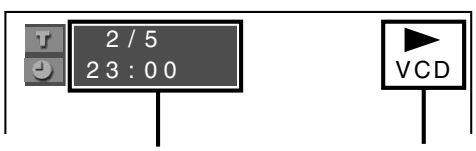
Audio CD



Track number/ Elapsed play time

Operation indicator

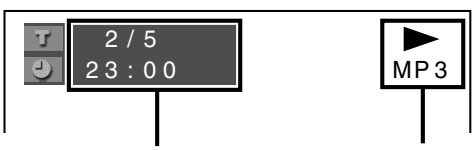
VIDEO CD



Track number/ Elapsed play time

Operation indicator

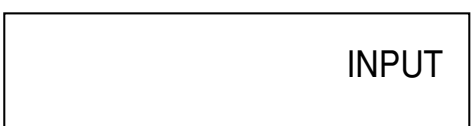
MP3 recorded CD-R/CD-RW



Track number/ Elapsed play time

Operation indicator

■ INPUT Mode



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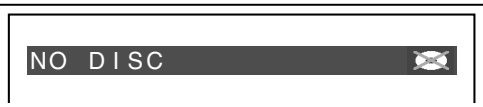
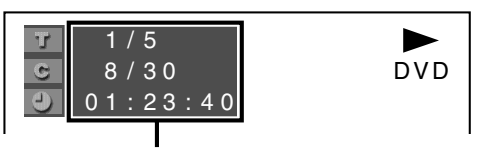
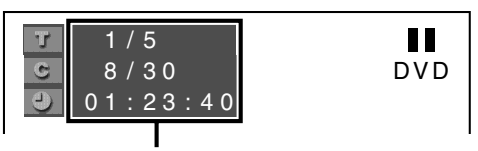
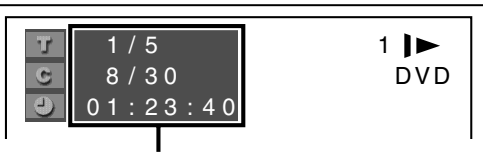
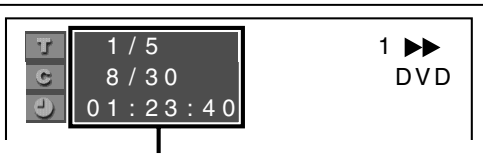
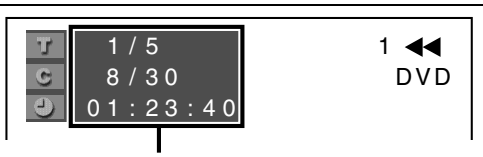
DVD mode operation indicators

The following are examples of display indicators that appear during DVD playback.

Player Status	Display Indicators
Play attempted without a disc	
Play attempted with a non-compatible disc	
Loading (data being read from disc)	
Stop	
Play	 Appears when display mode is “on”.
Pause	 Appears when display mode is “on”.
Slow	 Appears when display mode is “on”.
Fast Forward	 Appears when display mode is “on”.
Fast Reverse	 Appears when display mode is “on”.
When resume function can be used	

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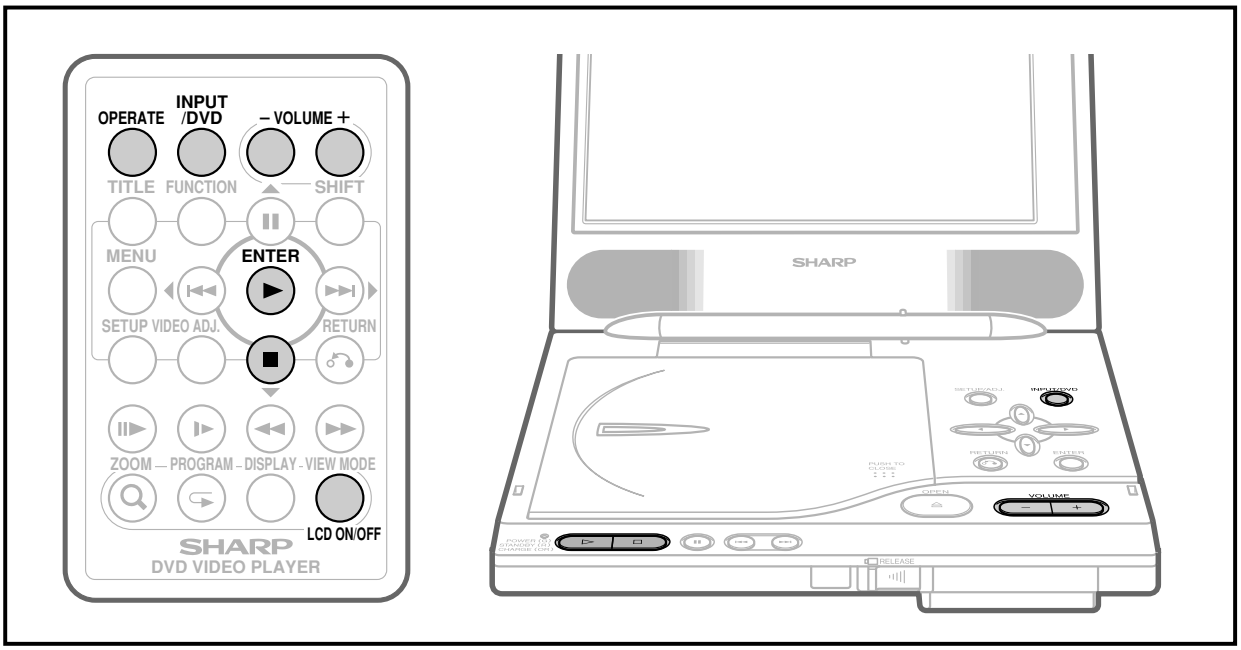
Playing a Disc

This Player can play a DVD, VIDEO CD, or Audio CD using the procedure described below.



DVD | VIDEO CD | CD

To play a disc

1 Slide the **OPERATE** switch to “ON” to turn on the Player.

2 Press **INPUT/DVD** to display the Startup screen shown on the right.

3 Load the disc you want to play into the Player.

4 Press ► **(PLAY)**.
- This starts disc play.

► DVD

NOTE

- Wait to press ► **(PLAY)** until the Startup screen appears.

- If the disc you are using supports auto start, it starts to play automatically (even if you do not press ► **(PLAY)**), as soon as you close the disc compartment cover.

BASIC OPERATIONS

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CAUTION

- Never try to open the disc compartment cover and look inside the disc compartment at the laser while a disc is playing. Doing so creates the danger of serious eye damage.
- Do not leave the Player on your lap for a long time. Heat generated by the Player can cause low-temperature burning of the skin over time.

Important!

- Do not press down on the disc compartment cover while a disc is playing.
- Keep the disc compartment cover closed except when loading or removing a disc. Otherwise, dust getting into the Player can lead to malfunction.
- The battery pack becomes warm while it is being used for a long time. This does not indicate malfunction.
- The indicator "⃠ WRONG DISC TYPE" appears on the display if the disc you are using is damaged, if you load the disc upside-down, or if the region number of the disc you are using is one that is not supported by this Player. If the above indicator appears, remove the disc from the Player and take the proper corrective action.

Playing VIDEO CDs with Playback Control (PBC)

- Pressing ► **(PLAY)** begins PBC playback. Time display is not shown for some discs.
- If you specify the track number to be played (with playback stopped) and press ► **(PLAY)**, normal playback (not PBC playback) begins.

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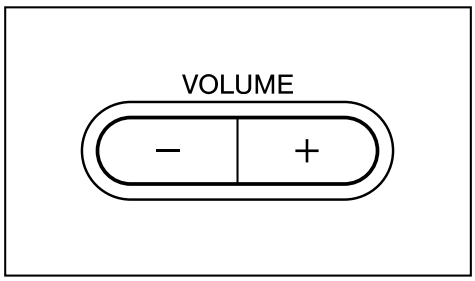
To adjust the volume level

Press **– VOLUME** or **VOLUME +** to adjust the volume level of the audio within a range of 0 to 20.

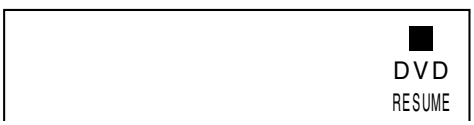


NOTE

- A safety feature automatically turns off Player power if you set the volume level too high while playing certain types of discs. If this happens, lower the volume level and restart play.

To stop disc play

1 Press ■ **(STOP)**.



Standby mode

- If you do not perform any operation for about five minutes after stopping disc play, the Player goes into the Standby mode.

To turn off the LCD display

1 Hold down **LCD ON/OFF** for two or more seconds.

- Holding down **LCD ON/OFF** turns on/off the LCD display.
- When LCD display is turned off, the Player's Indicator lamp lights green.

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Playing MP3 Discs

This Player is able to play CD-R or CD-RW discs recorded in MP3 format.

Regarding MP3 discs

- MP3 files are audio data compressed in MPEG1 Audio layer 3 file format. “MP3 files” have “.mp3” as extensions.
- Some files that have “.mp3” extensions or files that have not been recorded in MP3 format will produce noise or cannot be played.
- Some discs cannot be played depending on the actual CD-R/CD-RW disc condition, the recording equipment and the disc’s recording.
- Data on the CD-R or CD-RW disc, which has not been recorded in MP3 format, audio tracks or has been recorded in other file formats except MP3, cannot be played.

Playing MP3 discs

- Discs that have more than 1000 folders and files in total cannot be played.
- Some MP3 files are not played in the order they were recorded.
- The number of layers, which can be recognized, including files and folders, is maximum 8.
- Only the first session of a multi-session disc can be played.
- When both audio tracks and MP3 files are recorded on a disc, audio tracks will be played.
- Depending on the folder tree, reading MP3 files can take time. (The more files there are, the longer the reading time. Therefore it is recommended to lower the number of folders before recording.)
- Folder or track (file) names are limited to 8 characters. The folder / file names are displayed in half-size, capital letters or half-size numbers. Folder or track (file) names that go over 8 characters will be abbreviated, and some names may not be displayed depending on the characters or symbols used.
- The playing time may not be correctly displayed during MP3 file playback.
- It is recommended to record data at a lower speed as data recorded at fast speed can produce noise and may not be able to be played.

⚠ CAUTION

- It is impossible to make a digital copy by using a digital audio recording device which outputs sound from discs in MP3 format through the optical digital output jack of this Player.

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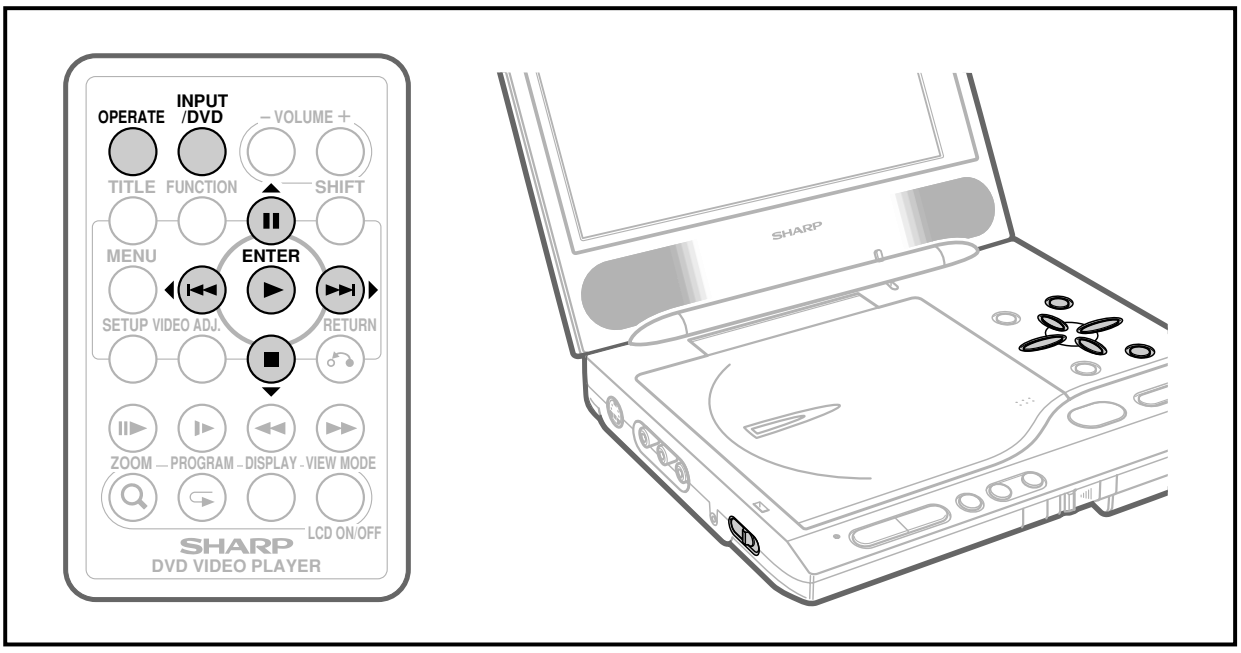


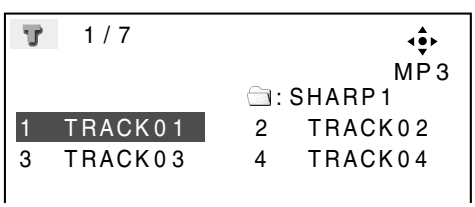
To play MP3 discs

1 Slide the **OPERATE** switch to “ON”.

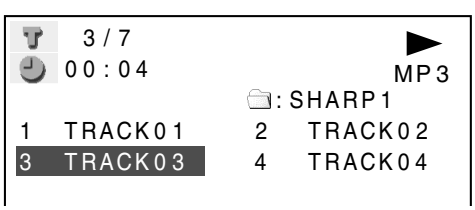
2 Press **INPUT/DVD** to enter the DVD mode.

3 Load the MP3 recorded CD-R or the CD-RW.
- The folder selection screen will be displayed as well as the “SELECT/ ENTER button”.

4 Select the folder you want to play by using ▲, ▼, ◀ or ▶ and press **ENTER**.
- The file (music title) in the folder is displayed on the file selection screen.



5 Select the file (music title) you want to play by using ▲, ▼, ◀ or ▶ and press **ENTER**.
- The chosen file (music title) will be played in sequence.
- When playing starts, the operation button will be displayed.



While the MP3 disc is playing

- Fast Forward, Rewind and Time Search are disabled.
- Programmed playback is disabled.
- It is possible to repeat one track or the entire disc.

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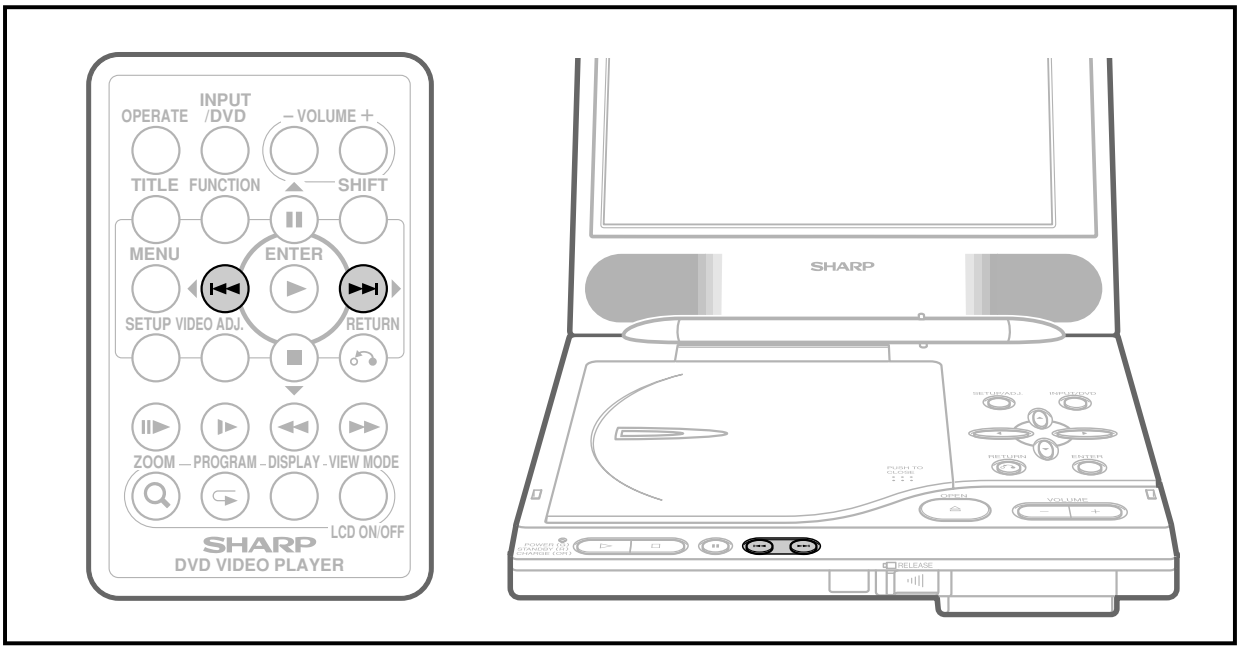
Other Disc Play Features

This section explains how to use skip, resume, slow motion, and other play features.



DVD

Chapter skip

1 While a disc is playing, press ▶▶| **(SKIP)** or |◀◀ **(SKIP)**.

- ▶▶| **(SKIP)** skips to the next chapter.
- |◀◀ **(SKIP)** skips to the beginning of the current chapter. Press |◀◀ **(SKIP)** again to skip to the beginning of the previous chapter.

NOTE

- Chapter information may not appear on the screen on some discs.
- You may not be able to use chapter skip with certain discs.

VIDEO CD | C D

Track skip

1 While a disc is playing, press ▶▶| **(SKIP)** or |◀◀ **(SKIP)**.

- ▶▶| **(SKIP)** skips to the next track.
- |◀◀ **(SKIP)** skips to the beginning of the current track. Press |◀◀ **(SKIP)** again to skip to the beginning of the previous track.

NOTE

- You may not be able to use track skip with certain discs.

BASIC OPERATIONS

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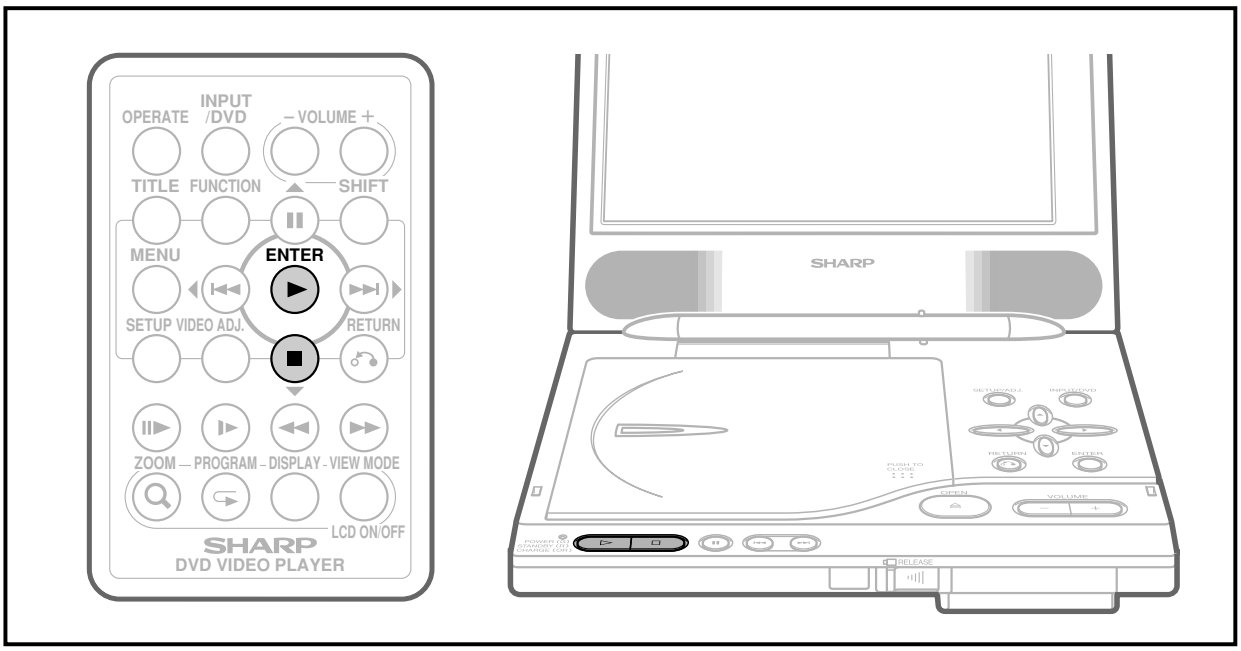

DVD

To resume disc play after stopping

1 While the disc is playing, press ■ **(STOP)** at the location where you want to stop.
- The Player stores the location where you stopped.

2 To restart play, press ► **(PLAY)**.
- Play resumes from a point slightly before the point where it was stopped.
- Press ► **(PLAY)** to resume disc play, if auto-playback starts from the beginning of the disc when you reload the same disc after removing it.

NOTE

- Resume playback is disabled on VIDEO CD and Audio CD.
- After you press ■ **(STOP)** to stop playback, you can press ■ **(STOP)** again to resume playback from the beginning of the disc.
- This resume operation may not work with certain types of discs.

This resume operation does not work in the following cases.
- If you press ■ **(STOP)** twice.
- If you press ■ **(STOP)** during auto-playback.
- If you remove a disc and then load another one.

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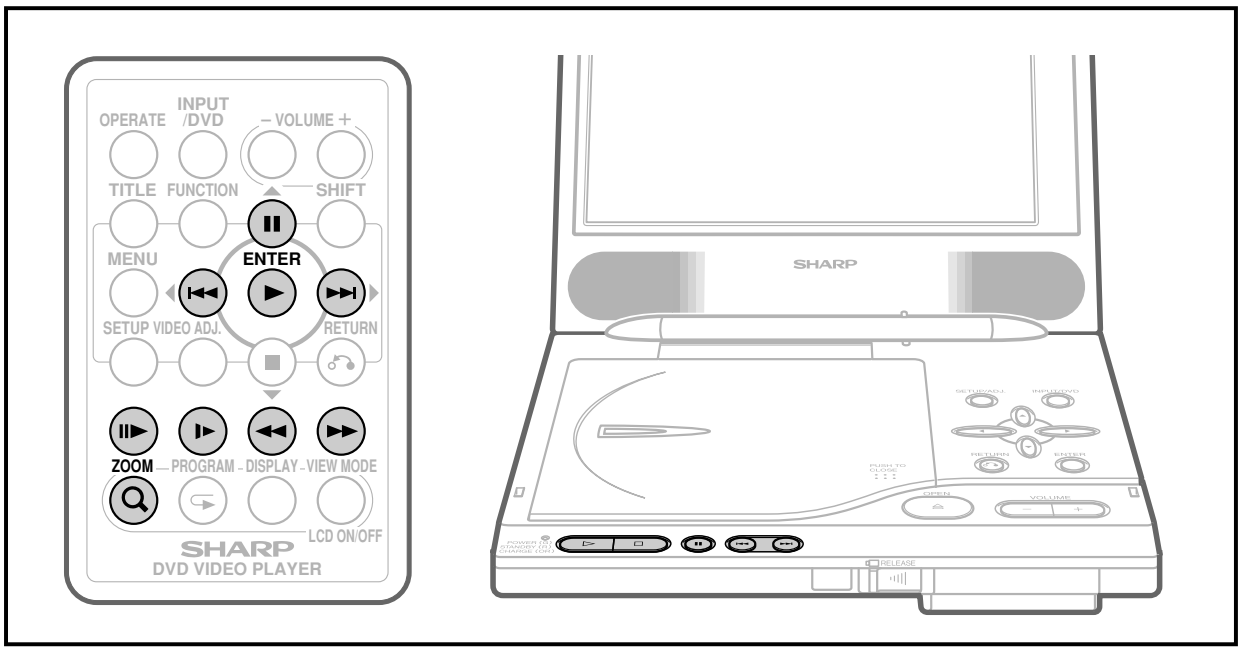

DVD VIDEO CD

Slow-motion play

1 While a disc is playing, press **I► (SLOW)**.

- Three speeds are available. Each time **I► (SLOW)** is pressed, the speed of slow-motion playback changes in the following sequence:

→1 (about ×1/2) ⟶ 2 (about ×1/8) ⟶ 3 (about ×1/16)

2 Press **► (PLAY)** to return to the normal playback.

NOTE

- On some discs, the slow-motion playback functions are disabled.
- Slow-motion playback is disabled on Audio CDs.

DVD VIDEO CD C D

Still (Pause) and Frame advance

1 While a disc is playing, press **II (STILL/PAUSE)**.

- This freezes the image on the screen.
- Each press of **II► (F.ADV)** advances the frame in STILL mode.

II
DVD

BASIC OPERATIONS

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2 To cancel still picture and return to normal play, press ► **(PLAY)**.

NOTE

- You may not be able to use still picture and frame advance with some discs.
- Frame advance cannot be used with Audio CDs.

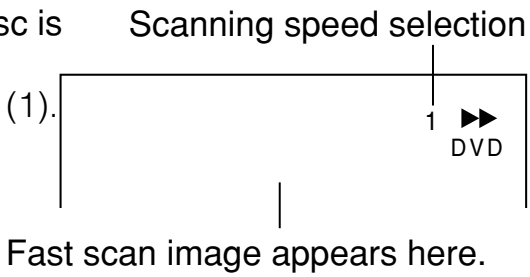
- This operation performs the Audio CD PAUSE function.

DVD VIDEO C D C D

Fast forward/Fast reverse

1 Press ►► **(FWD)** or ◄◄ **(REV)** while a disc is playing.

- The disc begins fast scan at ×2 speed (1).



- Three speeds are available. Each time ►► **(FWD)** or ◄◄ **(REV)** is pressed, the speed of fast scan changes in the following sequence:

  1 (about ×2) → 2 (about ×8) → 3 (about ×32)

- You can also operate this function by holding down ►►| **(SKIP)** or |◄◄ **(SKIP)** on the Player for two or more seconds. The speed of fast scan using the Player's ►►| **(SKIP)** or |◄◄ **(SKIP)** is only 2 (about ×8).

2 Press ► **(PLAY)** to return to normal playback.

NOTE

- On some discs, the fast scan function is disabled.
- On DVD video discs and VIDEO CDs, audio and subtitles are not played back during the fast scan playback.
- With a DVD video disc, you cannot search past a title. Playback starts from the beginning of the title.
- With a VIDEO CD and Audio CD, the search speed toggles between 1 (about ×2) and 2 (about ×8) when you press ►► **(FWD)** or ◄◄ **(REV)**.

BASIC OPERATIONS

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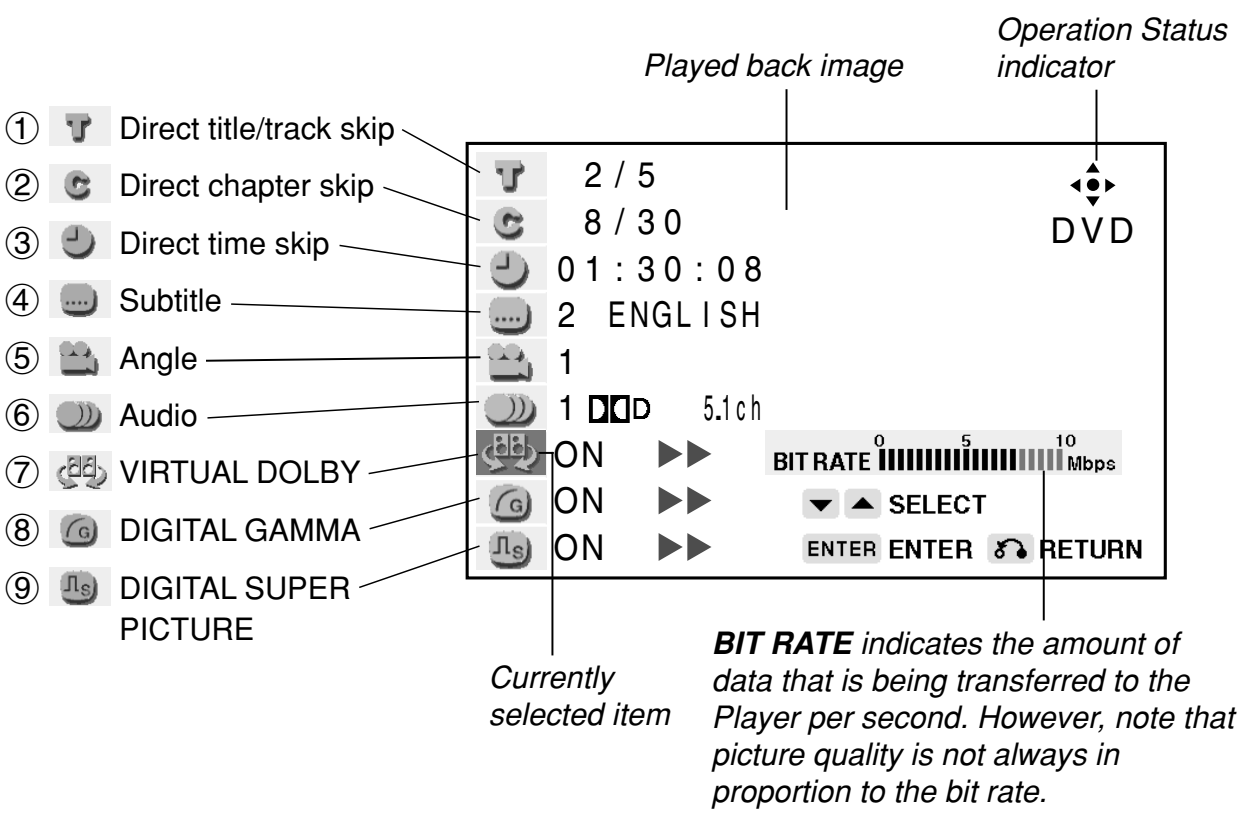
Using the Function Control

About the Function control screen

Using Function control, you can check at a glance and change the current settings of the following items: SUBTITLE, ANGLE, AUDIO, VIRTUAL DOLBY, DIGITAL GAMMA and DIGITAL SUPER PICTURE.
Function control also allows you three ways of direct skips (title,chapter and time).

- While the disc is playing, press **FUNCTION** to display the screen shown below.
- During playback, you can also use **SETUP/ADJ.** on the Player to display the Function control screen.
- Pressing ▲ or ▼ changes the currently selected item.

- Pressing **SHIFT** while making playback settings using the Remote enables disc operations, while leaving the playback setup screen on the display.
- To exit the setup operation, press **RETURN**. This returns to the screen that was shown before the Setup screen was displayed.



- Numbers in refer to the pages where the setting procedures are described.

① Direct title/track skip 79

- The number of the title/track currently played back is displayed.
- You can skip directly to the desired title/track.

SPECIAL FUNCTIONS

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② Direct chapter skip 80

- The number of the chapter currently played back is displayed.
- You can skip directly to the desired chapter.

③ Direct time skip 81

- Elapsed time from the beginning of the disc is displayed.
- You can skip directly to the point from which you want to start playback.

④ Subtitle language setting 82

- The subtitle number and language currently selected are displayed. (When a disc with only one subtitle is played back, “xx” is displayed.)
- You can select the desired subtitle language.

⑤ Angle setting 83

- The current angle is displayed. (When a disc with only one angle is played back, “xx” is displayed.)
- You can select the desired angle.

⑥ Audio setting 84

- The type of audio currently selected is displayed.
- You can select the desired type of audio.

⑦ VIRTUAL DOLBY (QSURROUND) setting 85

- This function provides rich surround sound by downmixing Dolby Digital 5.1 channel and Dolby Surround (Pro Logic) to 2-channel audio or TV.
- You can toggle the setting between “ON” and “OFF”, and change the level.
- When “COMPRESSION” is “ON”, this function is disabled, which is indicated by “xx”. To use the VIRTUAL DOLBY function, set the “COMPRESSION” to “OFF” (see page 56).

⑧ DIGITAL GAMMA setting 87

- You can make the entire image easier to see by brightening the darker and obscure portions.
- You can change the setting to “ON” or “OFF” and change the level when “ON” is selected.

⑨ DIGITAL SUPER PICTURE setting 88

- This function enhances the fine detail of the image and outlines of the objects by reducing the amount of picture noise.
- You can toggle the setting between “ON” and “OFF”, and change the level.

NOTE

- In Function control mode, you can return to the previous setting screen by pressing **RETURN** or **FUNCTION**.
- You can cancel the Function control mode by pressing **MENU**, **TITLE** or **ZOOM**.
- The setting screen is cleared automatically when appears a DVD screen that prompts you to change the scene by pressing ▲, ▼, ◀ or ▶.

SPECIAL FUNCTIONS

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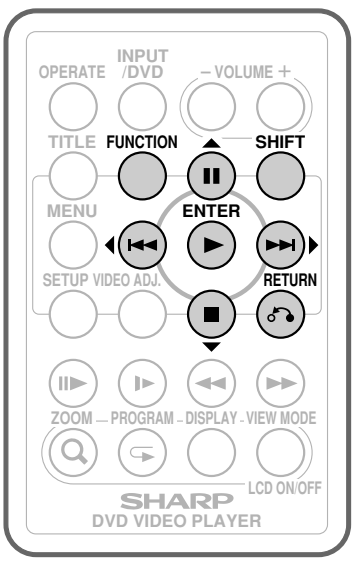
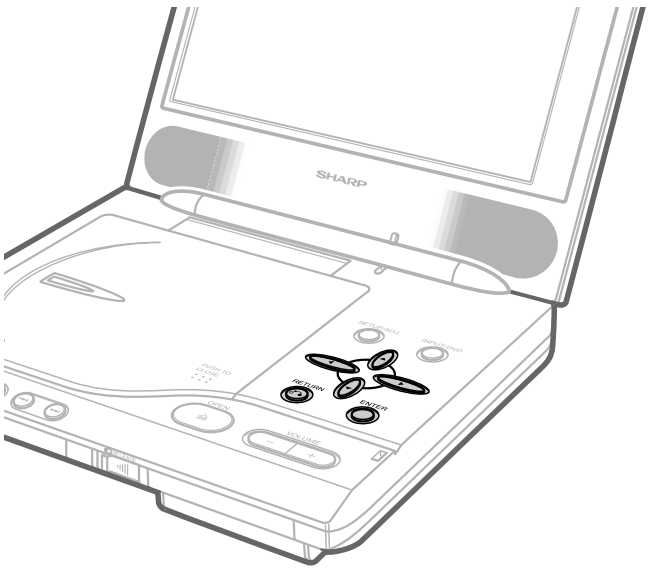
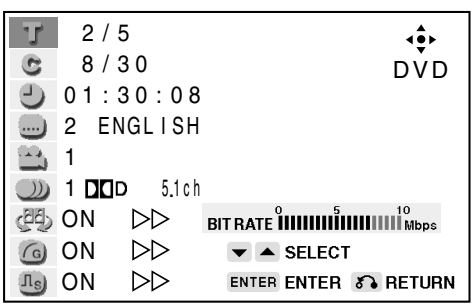
DVD | VIDEO CD | CD

Direct title/track skip





1 Press **FUNCTION** during playback.
- The Function control screen appears.



2 Use ▲ or ▼ to select and then press **ENTER**.

3 Use ▲ or ▼ to select the title/track number to which you want to skip.
(Example) Selecting title 5

4 Press **ENTER**.
- The played back image changes to the beginning of the specified title/track.
- You can exit the Function control screen by pressing **FUNCTION** or **RETURN**.

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NOTE

- The number of titles or tracks you can input depends on that of the titles or tracks recorded on a disc you play.
- The Direct title skip function does not operate on discs on which no titles are recorded.
- The Direct track skip function does not operate during PBC playback of a VIDEO CD. Use the function while disc playback is stopped.

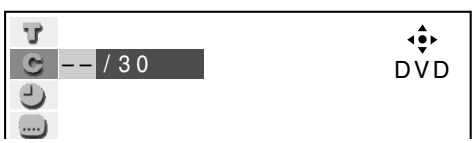
DVD

Direct chapter skip

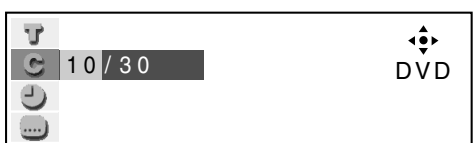
Use the following procedure to perform the Direct chapter skip.

1 Press **FUNCTION** during playback.
- The Function control screen appears.

2 Use ▲ or ▼ to select and then press **ENTER**.



3 Use ▲ or ▼ to select the chapter number to which you want to skip.
(Example) Selecting chapter 10



4 Press **ENTER**.
- The played back image changes to the beginning of the specified chapter.
- You can exit the Function control screen by pressing **FUNCTION** or **RETURN**.

NOTE

- The number of chapters you can input depends on that of the chapters recorded on a disc you play.

SPECIAL FUNCTIONS

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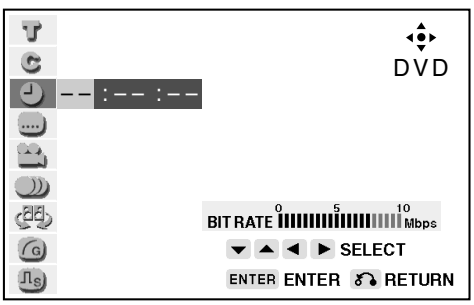
DVD VIDEO CD C D

Direct time skip

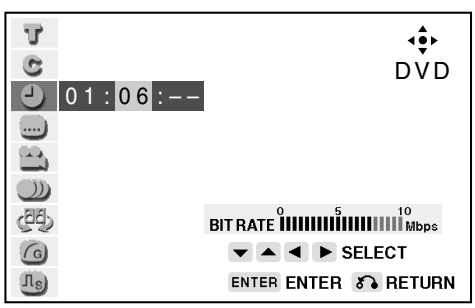
Use the following procedure to perform the Direct time skip.

1 Press **FUNCTION** during playback.
- The Function control screen appears.

2 Use ▲ or ▼ to select and then press **ENTER**.



3 Use ▲, ▼, ◀ or ▶ to input the time to which you want to skip.
- Press ▲ or ▼ to input the time.
- Press ◀ or ▶ to select the place where you want to input the time.



4 Press **ENTER**.
- The played back image jumps to the point you specified.
- You can exit the Function control screen by pressing **FUNCTION** or **RETURN**.

NOTE

- The number of times you can input depends on that of the times recorded on a disc you play.
- The Direct time skip function does not operate on disc on which no times are recorded.

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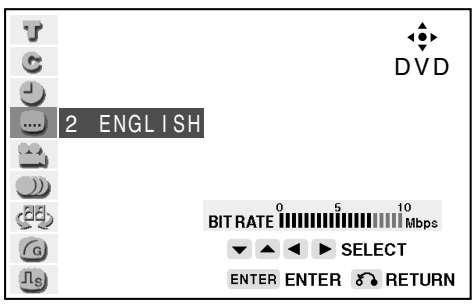
DVD

Subtitle language setting

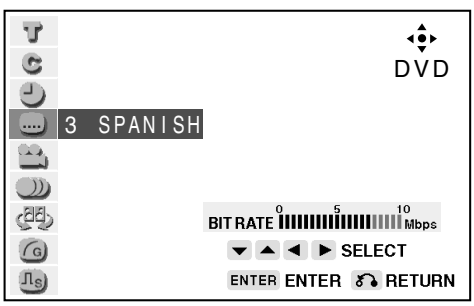
Use the following procedure to perform the Subtitle language setting.

1 Press **FUNCTION** during playback.
- The Function control screen appears.

2 Use ▲ or ▼ to select and then press **ENTER**.



3 Press ▲ or ▼ to select the subtitle language you want to use.
- You can set the subtitle setting to “OFF”.
- You can also toggle the setting between “ON” and “OFF” by pressing ◀ or ▶.



(Example) Selecting “3 SPANISH”

4 Press **ENTER** to confirm the setting.
- You can exit the Function control screen by pressing **FUNCTION** or **RETURN**.

NOTE

- This function can only be used for discs on which subtitles have been recorded in multiple languages.
- Some DVD discs are marked “Forced Display”, indicating that the subtitling cannot be suppressed. With such discs, the subtitles will be displayed even when you select “ OFF” display. This does not indicate a fault with your Player.
- If no subtitles are recorded on the disc, [XX] is displayed.

SPECIAL FUNCTIONS

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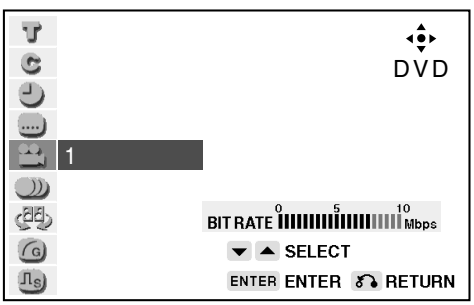
DVD

Angle setting

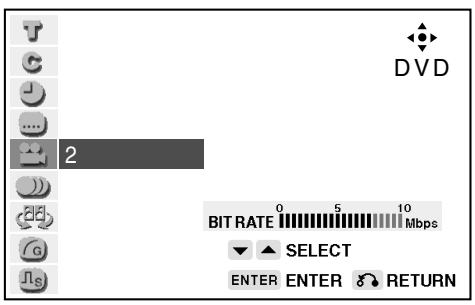
You can change the angle of view when playing a DVD video disc that contains scenes recorded from multiple angles.
Use the following procedure to perform the Angle setting.

1 Press **FUNCTION** during playback.
- The Function control screen appears.

2 Use ▲ or ▼ to select and then press **ENTER**.



3 Press ▲ or ▼ to select the angle number you want.
- The number of recorded angles differs depending on the disc used.



4 Press **ENTER** to confirm the setting.
- You can exit the Function control screen by pressing **FUNCTION** or **RETURN**.

NOTE

- This function can only be used for discs on which scenes shot from multiple angles have been recorded.
- If only one angle is recorded, [xx] is displayed.

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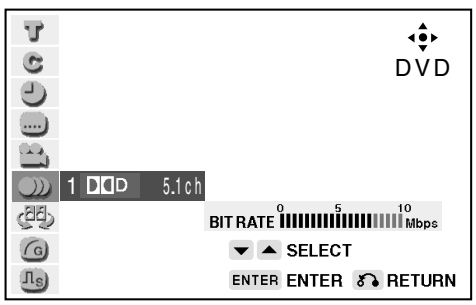
DVD | VIDEO CD | CD

Audio setting

A number of different methods are used to record audio onto a DVD video disc, including multi-channels (used for voiceovers in other languages), Dolby Digital (5.1ch), DTS, and Linear PCM. Your Player provides a number of different audio modes from which you can choose to suit the type of disc you are playing.
Use the following procedure to perform the Audio setting.

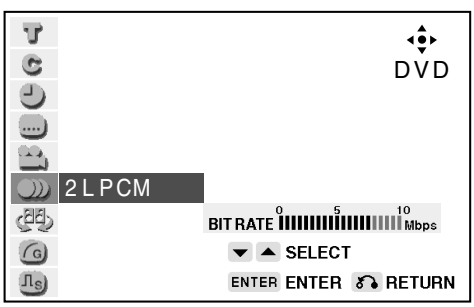
1 Press **FUNCTION** during playback.
- The Function control screen appears.

2 Use ▲ or ▼ to select and then press **ENTER**.



3 Press ▲ or ▼ to select the audio format you want to use.
- See pages 114 and 115 for details about the types of audio format.
- When playing a VIDEO CD or Audio CD, the audio playback changes in the following sequence:

L+R → L → R



4 Press **ENTER** to confirm the setting.
- You can exit the Function control screen by pressing **FUNCTION** or **RETURN**.

SPECIAL FUNCTIONS

NOTE

- This function can only be used for discs on which the sound has been recorded in multiple formats.
- To play back VIDEO CDs recorded with DTS format, audio mode should be set to "L+R". The Digital signal cannot be output correctly if audio mode is set to "L" or "R".
- With certain types of discs, you can change the audio using the disc menu. (See page 99.)
- A DTS digital surround decoder is required to listen to DTS audio.

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DVD

VIRTUAL DOLBY (QSURROUND) setting

This function allows you to enjoy a “surround sound” effect when you are using an analogue connection (using AUDIO OUT on the Player) to 2-channel audio equipment (TV, etc.).

Preparation:

To use the VIRTUAL DOLBY (QSURROUND) function

- Set the “COMPRESSION” setting in “AUDIO SETUP” to “OFF” (see page 56).

Refer to the table below about the types of audio format with which VIRTUAL DOLBY (QSURROUND) works.

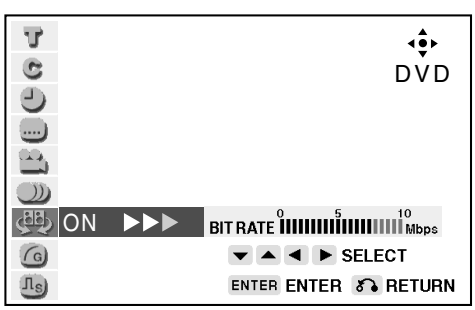
Types of audio recorded on the disc			
Dolby Digital	Dolby Pro Logic	Dolby Digital 2ch/Linear PCM	MPEG Audio Ver. 2.0/ DTS
○	○	×	×

Use the following procedure to change the setting between “ON” and “OFF”, and the level for the VIRTUAL DOLBY setting.

1 Press **FUNCTION** during playback.

- The Function control screen appears.

2 Use ▲ or ▼ to select and then press **ENTER**.



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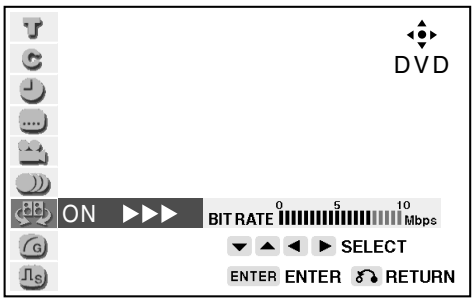
3 Press ▲ or ▼ to toggle VIRTUAL DOLBY between “ON” and “OFF”.

4 While “ON” is selected, use ◀ or ▶ to change the level setting.



5 Press **ENTER** to confirm the setting.

- You can exit the Function control screen by pressing **FUNCTION** or **RETURN**.

NOTE

- VIRTUAL DOLBY (QSURROUND) does not operate on VIDEO CDs and Audio CDs.
- VIRTUAL DOLBY (QSURROUND) does not operate when you set the “COMPRESSION” setting in “AUDIO SETUP” to “ON”.
- VIRTUAL DOLBY (QSURROUND) does not operate when you are using a Digital connection.
- QSURROUND™ is a trademark of QSound Labs, Inc.
- VIRTUAL DOLBY (QSURROUND) does not operate when you play back a disc recorded using Linear PCM, DTS or MPEG Audio format.

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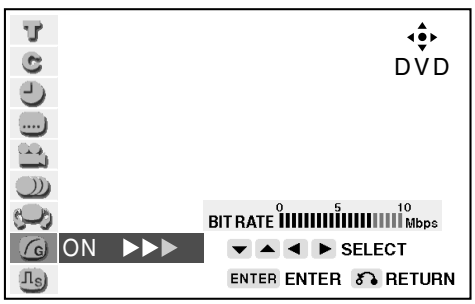
DVD VIDEO CD

DIGITAL GAMMA setting

DIGITAL GAMMA is a digital image quality enhancement function that gives a richer image by brightening the darker and more obscure portions of the image without altering the brightness of the brighter portions, thereby making the entire image easier to see.
Use the following procedure to change the setting to “ON” or “OFF”, and change the level for the DIGITAL GAMMA setting when “ON” is selected.

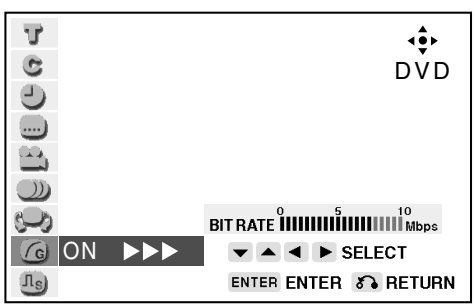
1 Press **FUNCTION** during playback.
- The Function control screen appears.

2 Use ▲ or ▼ to select and then press **ENTER**.



3 Press ▲ or ▼ to change the DIGITAL GAMMA setting to “ON” or “OFF”.

4 While “ON” is selected, use ◀ or ▶ to change the level setting.



5 Press **ENTER** to confirm the setting.
- You can exit the Function control screen by pressing **FUNCTION** or **RETURN**.

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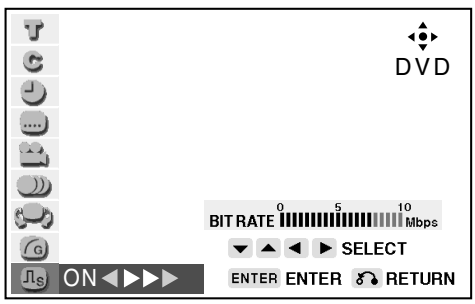
DVD VIDEO CD

DIGITAL SUPER PICTURE setting

DIGITAL SUPER PICTURE is a digital image quality enhancement function that gives a clearer image by sharpening the details and outlines in the image and reducing the amount of picture noise.
Use the following procedure to change the setting between “ON” and “OFF”, and the level for the DIGITAL SUPER PICTURE setting.

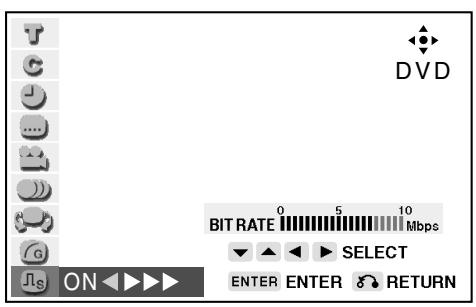
1 Press **FUNCTION** during playback.
- The Function control screen appears.

2 Use ▲ or ▼ to select and then press **ENTER**.



3 Press ▲ or ▼ to toggle DIGITAL SUPER PICTURE between “ON” and “OFF”.

4 While “ON” is selected, use ◀ or ▶ to change the level setting.
- To see more detail in very intricate images, set this setting to ▷▷▷.
- To obtain a subtle softening of the outlines of the displayed images, set this setting to ◁.
- Moving the setting towards ▷▷▷ for DVD playback and towards ◁ for VIDEO CD playback improves image quality.



5 Press **ENTER** to confirm the setting.
- You can exit the Function control screen by pressing **FUNCTION** or **RETURN**.

SPECIAL FUNCTIONS

NOTE

- Playing back a PAL disc while a plug is connected to the VIDEO IN/OUT jack may result in poor LCD screen image quality. This does not indicate malfunction of the Player.

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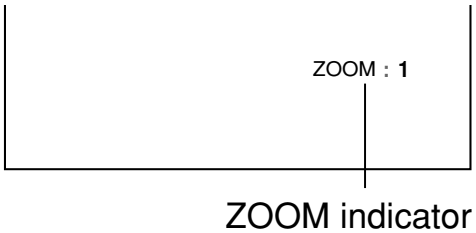
Zoom Function

DVD

To zoom an image

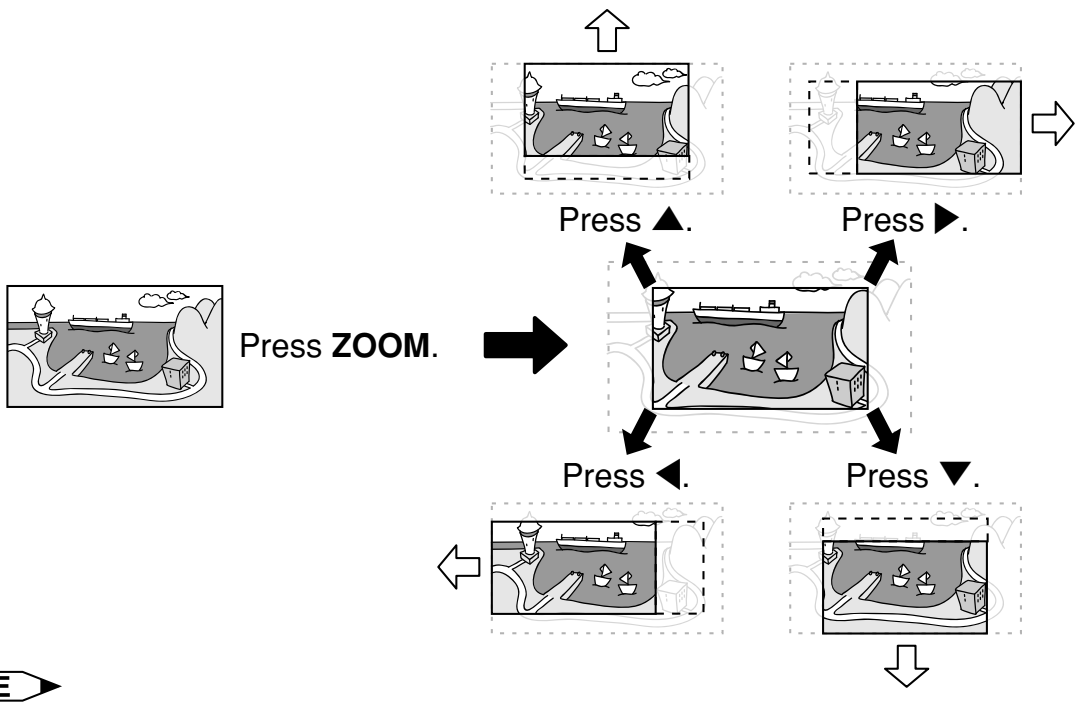
1 While a disc is playing, press **ZOOM**.

- Each press of **ZOOM** cycles through the zoom settings in the following sequence: ZOOM 1 (×1.2) → ZOOM 2 (×1.5) → ZOOM 3 (×2.0) → Off. Note that all of the above zoom factors are approximate only.



ZOOM indicator

- When playing a pan scan disc while 4:3 PS is selected as the "TV MODE" setting on the "TV MODE SETUP" screen, each press of **ZOOM** cycles through zoom settings in the following sequence: ZOOM 1 (×1.2) → ZOOM 2 (×1.5) → Off.
- While an image is zoomed, you can press **SHIFT** and then use ▲, ▼, ◀ and ▶ to shift the view and display the part you want.



NOTE

- An image may become distorted when zoomed.
- You can cancel the zoom operation and return the image to normal size by pressing ■ **(STOP)**, **MENU**, **TITLE**, ◀◀ **(FWD)**, ▶▶ **(REV)** or **FUNCTION**.
- The zoom setting is cancelled automatically whenever you display a DVD screen that enables you to change the scene by pressing ▲, ▼, ◀ or ▶.
- Subtitle cannot be zoomed.

- The ZOOM indicator changes from white to red to let you know when you are trying to perform an illegal shift of view. If you are already at the far left side of the image, for example, the ZOOM indicator will become red when you press ◀.

SPECIAL FUNCTIONS

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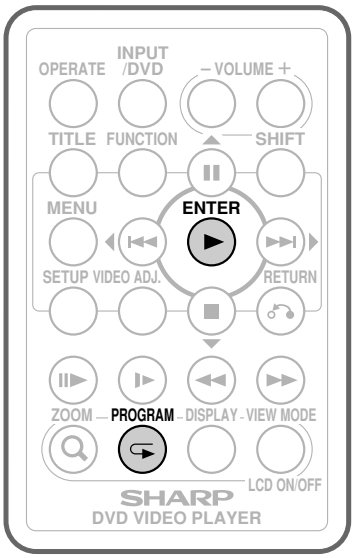
Repeat Playback



DVD

Chapter repeat

Example: To repeat play the chapter you are currently viewing

1 Play the chapter you want to repeat.

2 Press ↻ **(REPEAT)** and then press ▶ **(PLAY)** to start repeat play of the chapter.

- To cancel repeat play, press ↻ **(REPEAT)** again. This clears the "C↻" indicator from the display.

NOTE

- You may not be able to use repeat play with some discs.

SPECIAL FUNCTIONS

DVD

Title repeat

Example: To repeat play the title you are currently viewing

1 Play the title you want to repeat.

2 Press ↻ **(REPEAT)** twice and then press ▶ **(PLAY)** to start repeat play of the title.

- To cancel repeat play, press ↻ **(REPEAT)** again. This clears the "T↻" indicator from the display.

NOTE

- You may not be able to use repeat play with some discs.

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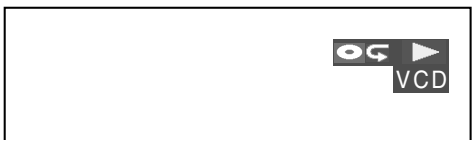
VIDEO CD | CD

Track/Disc repeat

Example: To repeat play a disc

1 While a disc is playing, press **(REPEAT)** twice to flash "" on the screen and then press ▶ **(PLAY)** to start repeat play.

- To cancel repeat play, press **(REPEAT)** again. This clears the "" indicator from the display.



NOTE

- To perform track repeat playback, press **(REPEAT)** once during playback to flash "" on the screen and then press ▶ **(PLAY)**.
- You cannot use repeat play with PBC (playback control) play of a PBC VIDEO CD.
- You may not be able to use repeat play with some discs.
- You cannot use repeat play in combination with programmed play.

DVD | VIDEO CD | CD

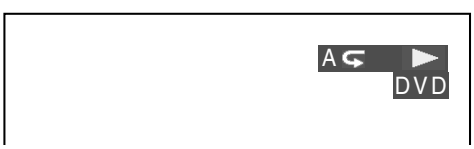
A-B repeat

1 Press **(REPEAT)** three times.

- This displays "" (repeat) indicator.

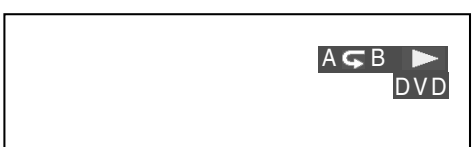
2 When play reaches the start point of the scene, press ▶ **(PLAY)**.

- This registers the location at the start point (A).



3 When play reaches the end point of the scene, press ▶ **(PLAY)** again.

- This starts A-B repeat from the start point (A) to the end point (B).
- To cancel A-B repeat, press **(REPEAT)** again. This clears the "" indicator from the display.



NOTE

- The start point and end point must be inside the same chapter.
- A-B repeat cannot be used with some multi-angle functions (see page 83).

- A-B repeat is cancelled whenever you press ■**(STOP)**, **TITLE**, or **MENU**.

SPECIAL FUNCTIONS

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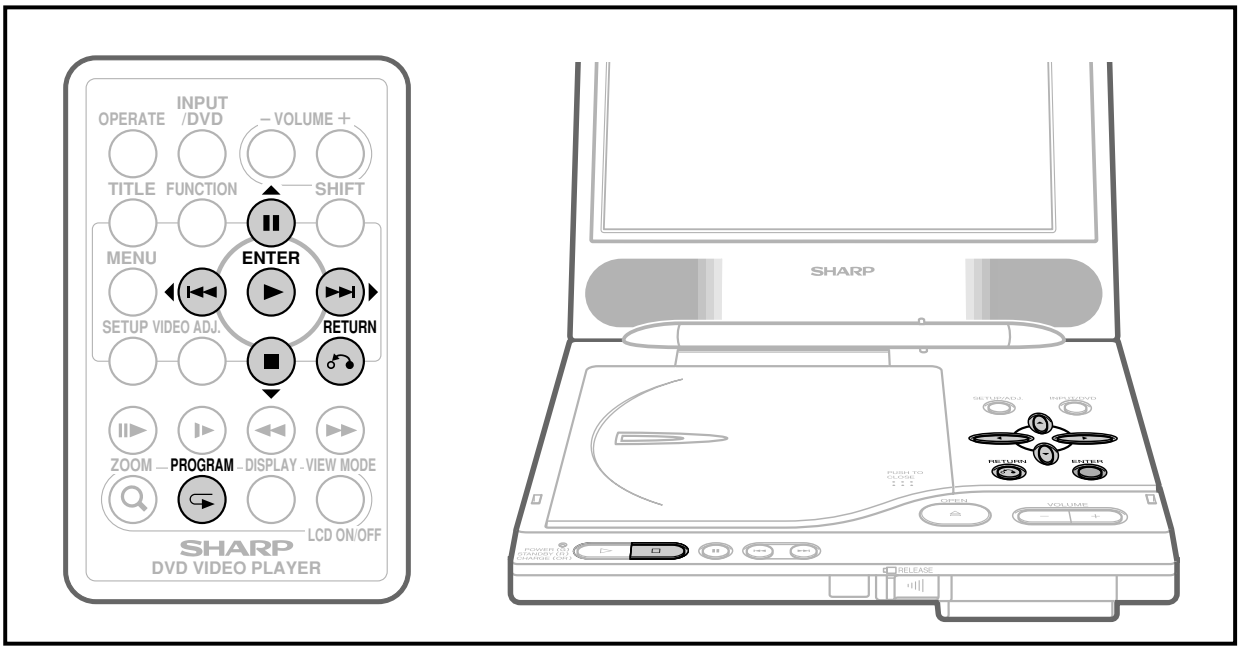
Programmed Playback

You can program your Player to play titles, tracks, or chapters in the sequence you want.



DVD

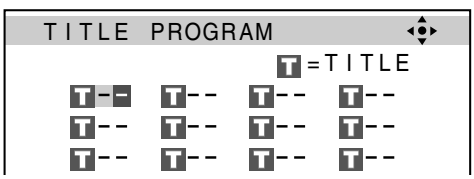
Title programmed playback

This function can be used only with a disc that has been played once, even partially.

SPECIAL FUNCTIONS

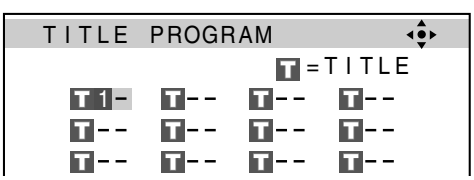
1 Turn on the Player, start play of the disc, and then stop play. Next, press **PROGRAM**.

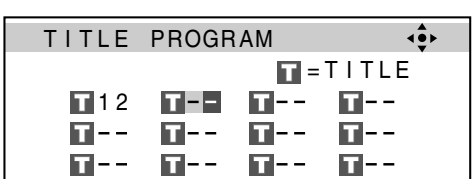
- The title programming screen is displayed.



2 Use ▲ and ▼ to cycle through numbers at the currently selected (highlighted) position, and then press ▶ to move the highlighting to the right.

For example, to play the 12th title first:





- Use ▲ and ▼ to cycle through numbers at the second digit until “1” is displayed, and then press ▶ to move the highlighting to the first digit. Use ▲ and ▼ to display “2” for the first digit, and then press ▶ to move the highlighting to the next title number. (Pressing ▶ while “-” is displayed for a digit enters “0” for the digit.)
- Repeat the procedure above if you want to input other title numbers. You can input up to 20 titles in the sequence in which you want them to play.

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3 After you have specified all title numbers you want, press ▶ to move the highlighting to the next. Then press **ENTER** to start play in the sequence you specified.

PROGRAM DVD

- Titles are played in the sequence you specified.
- When entering title numbers that do not exist on the disc in step 2, this operation is disabled.

NOTE

- Press **RETURN** if you want to exit the above screens.
- You cannot program the play sequence while a disc is playing.
- Play sequence programming does not work with a disc that does not include title information.
- Play sequence programming does not work with a disc that disables programming. The indicator ⃠ is displayed when playing back such discs.
- Play sequence programming does not work immediately after you load a disc into the Player. It can be used only after the disc has been played, even if only partially.

To stop programmed play

1 Press ■ **(STOP)**.

- The number you input is not stored in memory if there is no corresponding title number on the disc. Make sure you input title numbers correctly.
- If you input the wrong number, press ◀ and then re-input.
- To exit the programming procedure part way through, press **RETURN**.

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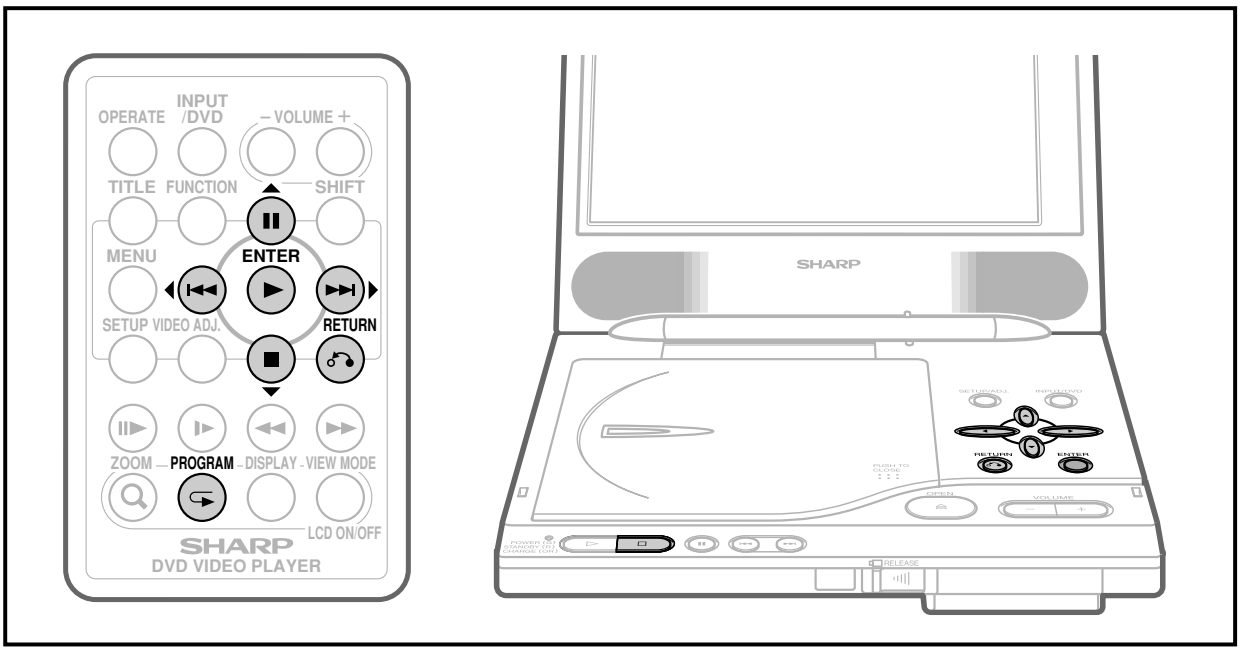


If you have a DVD that includes chapter data, you can program your Player to play chapters in the sequence you want.

DVD

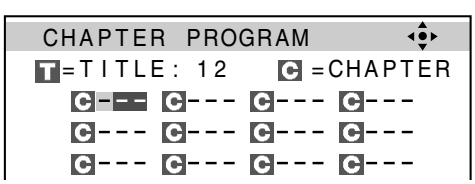
Chapter programmed playback

This function can be used only with a disc that has been played once, even partially.

SPECIAL FUNCTIONS

1 Turn on the Player, start play of the disc, and then stop play. Next, press **PROGRAM** twice.
- This displays the chapter programming screen.

2 Use ▲ and ▼ to cycle through numbers at the currently selected (highlighted) position, and then press ▶ to move the highlighting to the right.
For example, to play the 12th title first:



- Use ▲ and ▼ to cycle through numbers at the second digit until “1” is displayed, and then press ▶ to move the highlighting to the first digit. Use ▲ and ▼ to display “2” for the first digit, and then press ▶ to move the highlighting to the chapter number. (Pressing ▶ while “-” is displayed for a digit enters “0” for the digit.)

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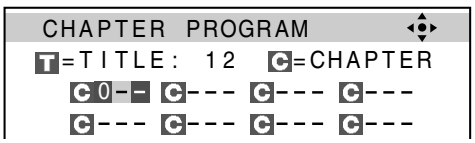
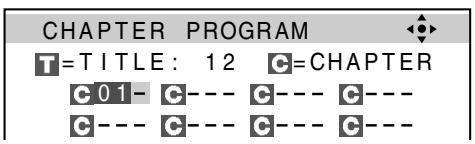
3 Use ▲ and ▼ to cycle through numbers at the currently selected (highlighted) position, and then press ▶ to move the highlighting to the right.
For example, to play the 15th chapters first:





- Pressing ▶ while "-" is displayed for a digit enters "0" for the third digit.
- Use ▲ and ▼ to cycle through numbers at the second digit until "1" is displayed, and then press ▶ to move the highlighting to the first digit. Use ▲ and ▼ to display "5" for the first digit, and then press ▶ to move the highlighting to the next chapter number.
- Repeat the procedure above if you want to input other chapter numbers. You can input up to 20 chapters in the sequence in which you want them to play.

4 After you have specified all chapter numbers you want, press ▶ to move the highlighting to the next. Then press **ENTER** to start play in the sequence you specified.

- Chapters are played in the sequence you specified.
- When entering chapter numbers that do not exist on the disc in step 3, this operation is disabled.

NOTE

- Press **RETURN** if you want to exit the above screens.
- You cannot program the play sequence while a disc is playing.
- Play sequence programming does not work with a disc that does not include chapter information.
- Play sequence programming does not work with a disc that disables programming. The indicator ⃠ is displayed when playing back such discs.
- Play sequence programming does not work immediately after you load a disc into the Player. It can be used only after the disc has been played, even if only partially.

SPECIAL FUNCTIONS

To stop programmed play

1 Press ■ **(STOP)**.

- The number you input is not stored in memory if there is no corresponding chapter number on the disc. Make sure you input chapter numbers correctly.
- If you input the wrong number, press ◀ and then re-input.
- To exit the programming procedure part way through, press **RETURN**.

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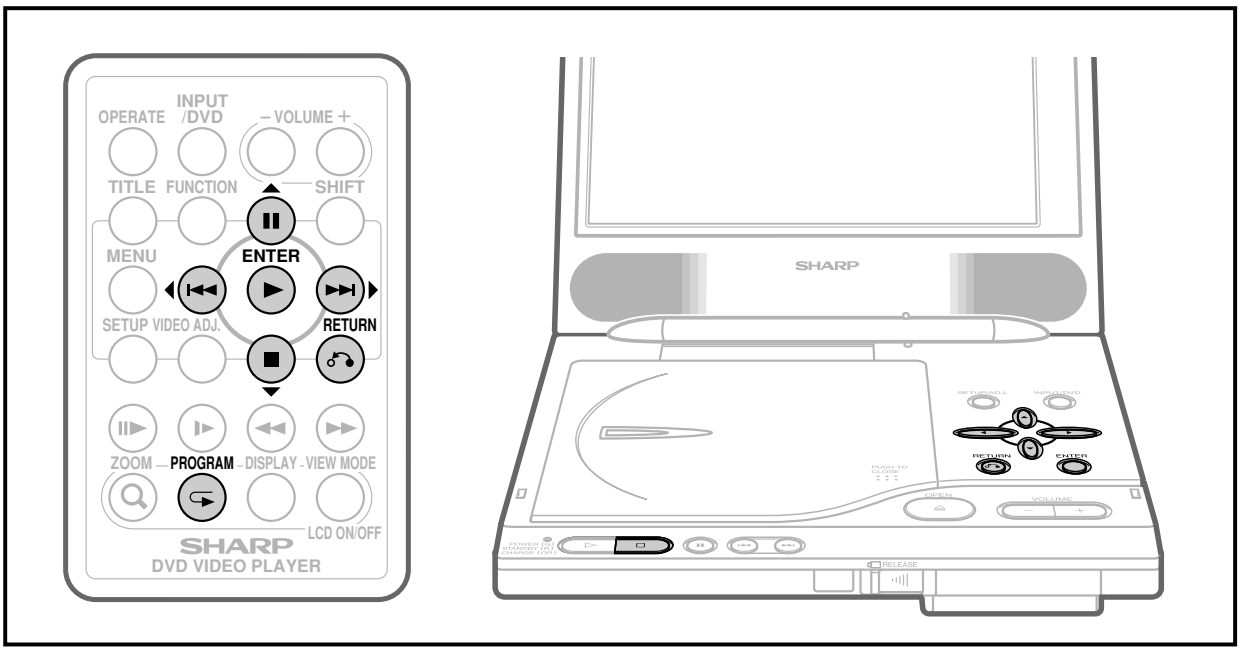


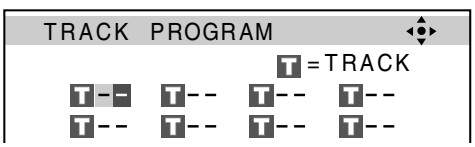
VIDEO CD | CD

Track programmed playback

This function can be used only with a disc that has been played once, even partially.

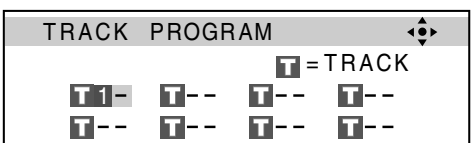
1 Turn on the Player, start play of the disc, and then stop play. Next, press **PROGRAM**.

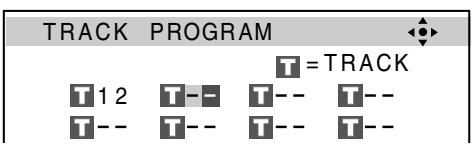
- The track programming screen is displayed.



2 Use ▲ and ▼ to cycle through numbers at the currently selected (highlighted) position, and then press ▶ to move the highlighting to the right.

For example, to play the 12th track first:





- Use ▲ and ▼ to cycle through numbers at the second digit until “1” is displayed, and then press ▶ to move the highlighting to the first digit. Use ▲ and ▼ to display “2” for the first digit, and then press ▶ to move the highlighting to the next track number. (Pressing ▶ while “-” is displayed for a digit enters “0” for the digit.)
- Repeat the procedure above if you want to input other track numbers. You can input up to 20 tracks in the sequence in which you want them to play.

SPECIAL FUNCTIONS

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3 After you have specified all track numbers you want, press ▶ to move the highlighting to the next. Then press **ENTER** to start play in the sequence you specified.

- Tracks are played in the sequence you specified.
- When entering track numbers that do not exist on the disc in step 2, this operation is disabled.

NOTE

- Press **RETURN** if you want to exit the above screens.
- You cannot program the play sequence while a disc is playing.
- Play sequence programming does not work with a disc that does not include track information.
- Play sequence programming does not work with a disc that disables programming. The indicator ⃠ is displayed when playing back such discs.
- Play sequence programming does not work immediately after you load a disc into the Player. It can be used only after the disc has been played, even if only partially.

To stop programmed play

1 Press ■ **(STOP)**.

- The number you input is not stored in memory if there is no corresponding track number on the disc. Make sure you input track numbers correctly.
- If you input the wrong number, press ◀ and then re-input.
- To exit the programming procedure part way through, press **RETURN**.

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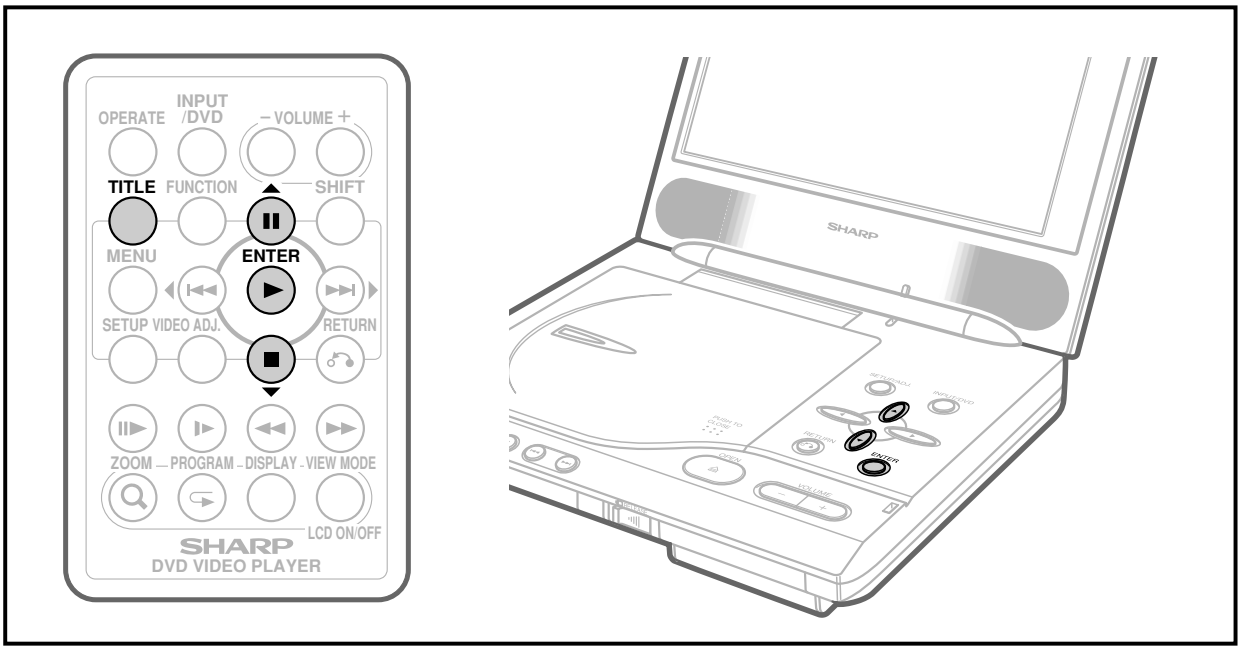
Selecting Titles from the Title Menu

Some DVDs have a title menu that you use to select the title you want to play.



DVD

To select a title from the title menu

This function can be used only with a disc that has been played once, even partially.

1 While the disc is stopped, press **TITLE** to display its title menu.

2 Use ▲ and ▼ to select the title you want.

3 Press **ENTER** to start play of the selected title.

NOTE

- Some DVDs use the term “top menu” instead of “title menu”.
- Nothing appears on the screen when you press **TITLE** if the disc you are using does not have a title menu.
- The procedure shown here provides only general steps. The actual procedure for using the title menu depends on the disc you are using. See the disc jacket for details.
- The title menu does not appear immediately after you load a disc into the Player. It appears only after the disc has been played, even if only partially.

SPECIAL FUNCTIONS

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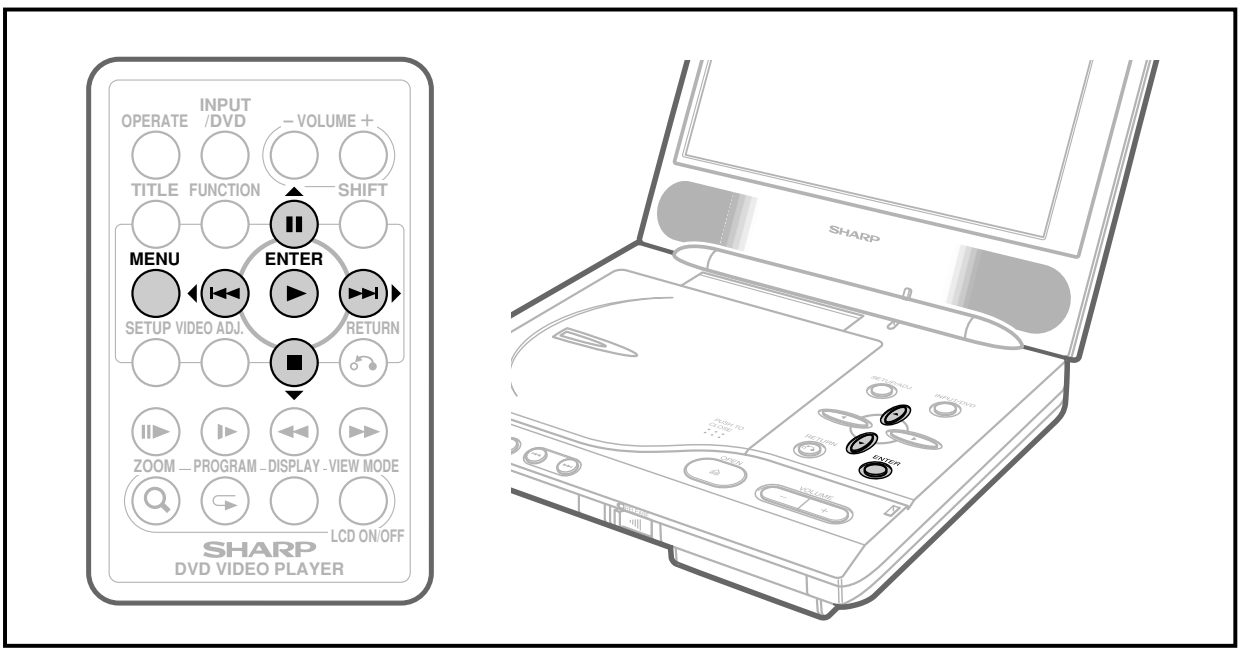
Setting Play Parameters Using the Disc Menu

Some DVDs include a disc menu that you can use to select subtitle set, audio channel, and Dolby Digital (5.1 channel) or DTS audio. You can also turn disc menu on and off.



DVD

To use the disc menu to turn on subtitling

This function can be used only with a disc that has been played once, even partially.

1. While the disc is stopped, press **MENU** to display the disc menu.
2. Use ▲, ▼, ◀ and ▶ to select the subtitle item on the disc menu.
3. Press **ENTER** to display the subtitle language selection screen.
4. Use ▲, ▼, ◀ and ▶ to select the subtitle language you want to use.
5. Press **ENTER** to register your selection and display the subtitles in the language you have set.

Repeat the above procedure to make other disc menu settings.

NOTE

- The procedure shown here provides only general steps. The actual procedure for using the disc menu depends on the disc you are using. See the disc jacket for details.
- The disc menu does not appear immediately after you load a disc into the Player. It appears only after the disc has been played, even if only partially.

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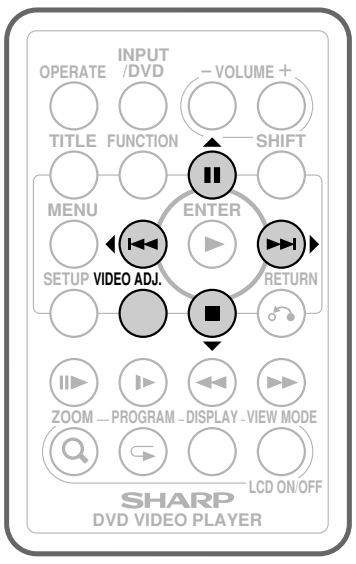
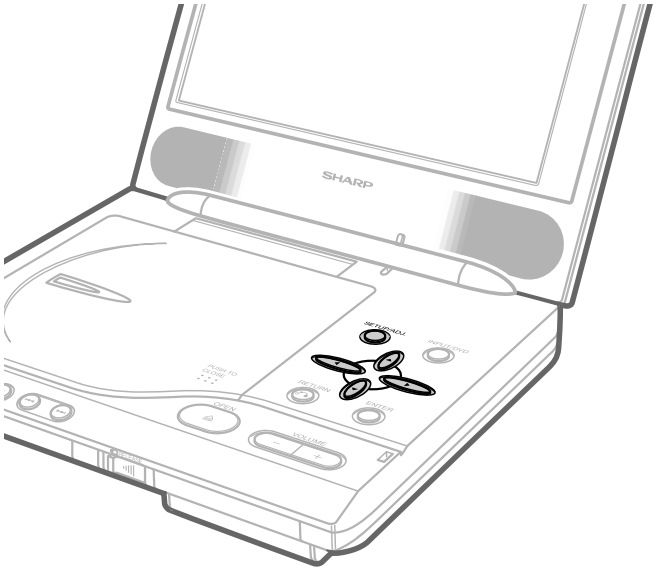
Adjusting Display

Use the procedures described here to adjust the brightness and contrast of the colours that appear on the display, and the overall brightness of the display.

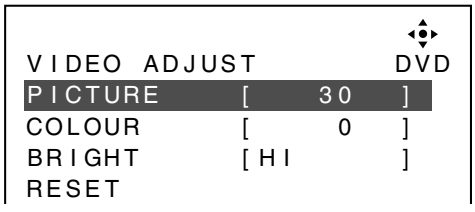




To adjust display colours

1 Press **VIDEO ADJ.**.

- Alternatively, you could hold down **SETUP/ADJ.** on the Player for about two seconds.

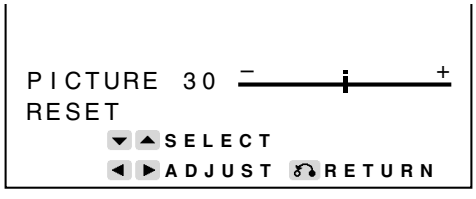


2 Use ▼ and ▲ to select the item whose setting you want to change.

- The colour of the selected item changes to indicate it is selected.

3 Use ◀ and ▶ to change the setting of the selected item.

- PICTURE .... Controls image colour brightness
- COLOUR .... Controls image colour contrast
- BRIGHT ..... Controls LCD backlight brightness



Example: When selecting "PICTURE"

4 After you are finished, press **VIDEO ADJ.**.

NOTE

- The setting screen disappears from the display if you do not perform any operation for about 30 seconds.
- The settings you make here are retained even when you turn off the Player.
- While the "VIDEO ADJUST" screen is displayed, other operations are disabled.

SPECIAL FUNCTIONS

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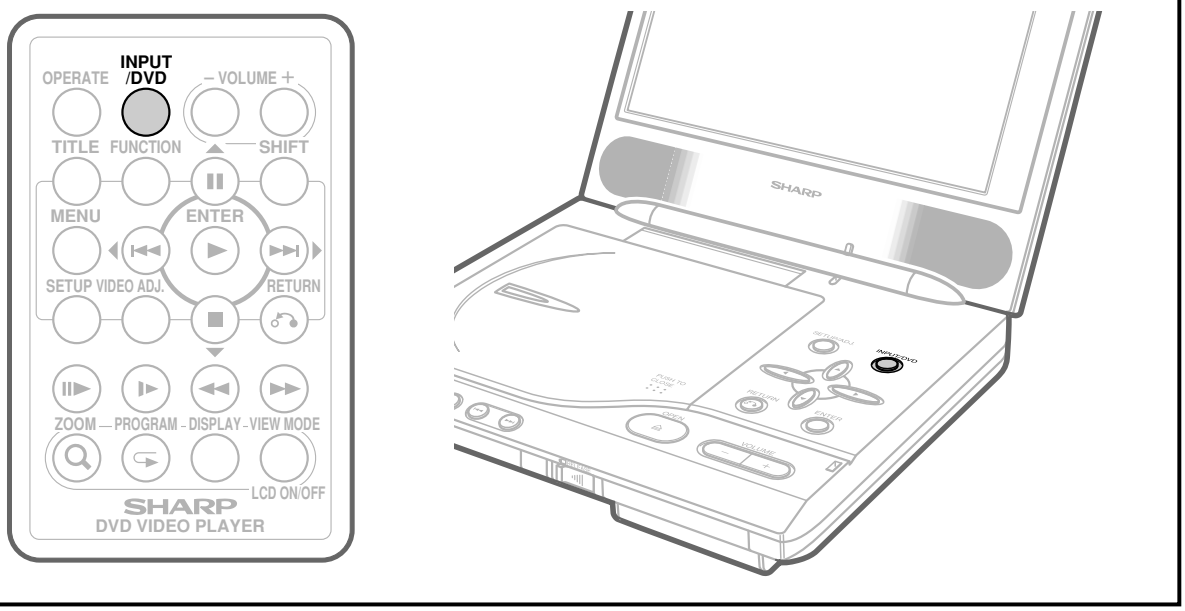
Viewing Images from an External Equipment

Use the following procedure to set up the Player for use as a monitor for viewing images from a VCR or camcorder.



To view images from an external equipment

1. Connect the external equipment using the procedure on page 30.
2. Turn on the external equipment.
3. Turn on the Player.
4. Press **INPUT/DVD** to enter the INPUT mode.

INPUT

5. Press the play button of the external equipment.

NOTE

- Power is not supplied from the Player to a connected camcorder.
- When not using the Player with external equipment, be sure to disconnect all cables from the video input/output and audio input/output terminals.
- The Player goes into the Standby mode when no video signal is input for about 5 minutes in the INPUT mode.

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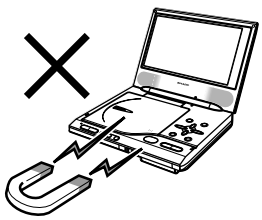
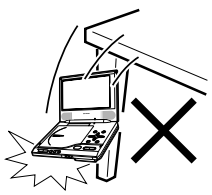
References

Precautions

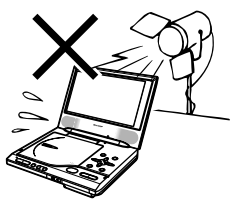
Use & Care



- **Avoid magnetic sources.**
  Using the Player near strong fluorescent lights, motors, televisions, or other magnetic sources may adversely affect recorded images.
- **Remember to remove the disc, turn off the power when the Player is not in use.**
- **Using the Player near a broadcasting station or other powerful transmission source may cause buzzing or picture deterioration.**

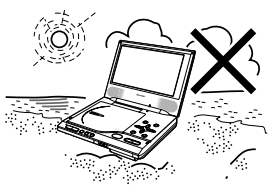


- **Avoid shocks and dropping.**
  Do not drop or otherwise subject the Player to hard shocks or strong vibrations.
- **Avoid placing the Player in close proximity to lighting equipment.**
  The heat from incandescent lights may deform the Player, or cause it to malfunction.



- **Always respect prohibitions or restrictions on the use of electronic equipment on commercial flights or in other sensitive areas.**

- **Be aware of the temperature and humidity.**
  You can use your Player at 0°C to 40°C and at 30% to 80% relative humidity. Do not store the Player in an unventilated car in the summer, in direct sunlight, or near strong heat sources; this can result in severe damage to the unit's casing and circuitry or in burning yourself.



- **Avoid situations where water, sand, dust or other foreign matter could get on or inside the Player, and do not use or leave your Player in areas with excessive smoke, steam or moisture.**
  Such environments can cause malfunctions or cause mildew to form on the lenses. Be sure to keep the Player in a well-ventilated location.
- **When using your Player in a cold environment, the colour LCD screen often appears less bright immediately after the power is turned on.**
  This is not a malfunction. To prevent the Player from becoming too cold, wrap it in a thick cloth (a blanket, etc.).
- **Never touch the pickup lens when installing or cleaning discs.**
  This will cause the Player to malfunction.

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- **Do not leave the Player on your lap for a long time during use.**
  Heat generated by the Player can cause low-temperature burning of the skin over time.

Moving and shipment

- **Remove the disc before packing the Player for moving or shipment.**
  It is also a good idea to remove the disc and turn off power whenever you are not using the Player.

Saving power

- **Help save power by turning off the Player when you are not using it. If you do not plan to use the Player for a long time (such as when leaving on a trip), unplug the power cord from the power outlet.**

Care of the LCD

- **To clean off the screen, turn off power and wipe the display with a soft cloth.**

About the LCD Panel

- The LCD panel is a product of the latest LCD manufacturing technology that provides a pixel yield of 99.99%. This means that less than 0.01% of the total number of pixels are defective (they do not turn on or always remain turned on).
- The fluorescent tube that provides backlighting of the screen requires periodic replacement. As a general rule, the life of the fluorescent tube is about 10,000 hours of continuous use under normal temperatures. If the display appears dark, if it flickers, or if it fails to light, contact your original retailer or your nearest Sharp service centre for replacement.

Copyright Information

- Unauthorized copying, broadcast, public display, transmission, public performance and rental (regardless of whether or not such activities are for profit) of disc contents are prohibited by law.
- This device is equipped with copy protection technology that causes substantial degradation of images when the contents of a disc are copied to video tape.
- This device is protected by U.S. patents and other intellectual property rights, the copyright for which belongs to Macrovision Corporation. The use of Macrovision's copy protection technology in the device is authorized by Macrovision and is intended for home use only, unless otherwise authorized in writing by Macrovision. Reverse engineering or disassembly is prohibited.
- This device was manufactured under license from Dolby Laboratories.
- Dolby, Dolby Digital, Dolby Pro Logic, and the double-D symbol (DD) are trademarks of Dolby Laboratories.
- DTS is a trademark of Digital Theater Systems.
- QSURROUND™ is a trademark of QSound Labs, Inc.

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AC Adapter

- The supplied AC adapter is compatible with 50Hz and 60Hz electrical systems in the range of 110 V to 240 V AC.
- The AC adapter may interfere with reception if used near a radio.
- Prevent flammables, liquids, and metal objects from entering the adapter.
- The adapter is sealed unit. Do not attempt to open and modify it.
- Do not damage, drop, or subject the adapter to vibration.
- Do not leave the adapter in direct sunlight.
- Avoid using the adapter in humid or extremely hot places.
- If the AC adapter is misplaced or needs to be replaced, obtain the same type of adapter from a Sharp service centre or your dealer.

Care

Cleaning and Maintenance

- Many plastic parts are used in the Player casing. Do not use thinners, benzenes or other strong chemical cleaners. These may cause discolouration and damage to the casing.
- Clean the casing with a soft, dry cloth. If the casing is particularly dirty, wipe the casing with a tightly wrung cloth dampened with a diluted, neutral detergent. Then wipe it again with a soft, dry cloth.
- Use a soft, dry cloth to wipe finger marks and other soiling off the LCD screen.

Battery Pack (Optional Accessory)

⚠ Danger!

Be sure to observe the following precautions whenever handling the battery pack. Failure to do so can result in battery pack leakage, overheating, smoke emission, fire, or rupture.

1. Never try to take the battery pack apart or modify it in any way. Never apply solder directly to battery pack terminals.
2. When the battery pack is removed from the unit, do not allow its terminals to contact each other through needles, necklaces, or other metal objects.
3. Never leave the battery pack in direct sunlight, on the dashboard of a vehicle, or in any other area where it is exposed to high temperature (greater than 60°C).
4. Never place the battery pack into water, salt water or fire, and do not expose it to heat.
5. Use only the specified AC adapter to charge the battery pack.
6. This battery pack is designed to power specific portable Players only. Never use it with any other device.

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⚠ Warning!

1. Never drop the battery pack or otherwise subject it to strong impact.
2. Use and store the battery pack in areas that is out of the reach of small children.
3. Never place the battery pack inside a microwave oven or a washing machine.
4. Fluid from inside the battery pack getting into the eyes can cause loss of eyesight. Wash out the eyes thoroughly with plain water and then contact a doctor immediately. Battery pack fluid on clothing or skin can cause skin irritation. Wash off fluid immediately with plain water.

⚠ Caution!

1. Charge the battery pack in an area where the temperature is within the range of 10°C to 30°C. Charging outside this temperature range creates the danger of battery pack leakage, overheating, smoke emission, fire, or rupture.
2. When not in use, remove the battery pack and store it in a cool place.
3. Avoid prolonged contact with the AC adapter or battery pack while charging. Prolonged contact while charging creates the danger of low-temperature burns.
4. Keep the battery pack out of areas subject to large amounts of oil smoke, steam, moisture, dust, etc.
   - Never leave the battery pack in food preparation areas, near heaters, or in any other location where it can be exposed to oil smoke or steam. Doing so creates the danger of fire and electric shock.
   - Do not use or store the battery pack where it is exposed to direct sunlight, sources of heat, or any other location subject to high temperatures. Doing so creates the danger of battery pack leakage, overheating, smoke emission, fire, or rupture.

Battery Pack Charging Precautions

- Charge the battery pack in an area where the temperature is in the range of 10°C to 30°C.
  Low temperature can inhibit charging and cause deterioration of the battery pack. The battery pack also cannot charge fully under high temperatures.
- Charging of a battery pack may become disabled (and the Indicator lamp may fail to light orange) whenever heat from the Player caused the internal temperature of an installed battery pack to rise above certain level. When this happens, remove the battery pack from the Player. Charging will start automatically when battery pack internal temperature drops to a safe level.

Storage Precautions

- Before storing a battery pack, first fully discharge it by using it to power Player operation. Store the battery pack in a cool place.
  Storing a battery while it is charged or in a hot location promotes deterioration.

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Troubleshooting

Whenever you are having problems with your Player, check the following points before requesting service.

Problem	Recommended Action	Page
Power does not turn on or suddenly turns off.	• Make sure the power plug of the AC adapter is plugged into a power outlet.	35
	• Try turning power off and then back on again.	41
Power does not turn on or suddenly turns off under battery power.	• Check if the battery pack is charged. If not, charge it.	37
The remote control unit does not work.	• Make sure that battery is installed correctly.	43
	• Check for dead battery.	
	• Make sure the signal emitter of the Remote unit is pointed at the remote sensor of the Player.	
	• Make sure the Remote unit is not too far from the Player.	
	• Make sure nothing is blocking the signal path between the Remote unit and Player.	
No image appears or no audio is produced.	• Make sure video and audio cables are connected correctly.	30-34
	• Make sure the disc you are trying to play is a DVD (Region 3 for Southeast Asia/Region 4 for Australia and New Zealand or ALL), VIDEO CD, or Audio CD.	13-15
	• Use a disc that is free of dirt and scratches.	9
	• Make sure the disc is not upside-down.	21, 69
	• The Player's pickup lens may be dirty. Take the Player to your nearest service centre for cleaning.	8
	• If you want to display images on a connected TV, make sure the TV channel is set to VIDEO or AV.	31

The micro-controller built into the Player can be affected by external electrical noise and interference. If you suspect this is the problem, try turning the Player off and then back on again.

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Problem		Recommended Action	Page
Nothing appears on the screen.		• Make sure the “PICTURE” setting of “VIDEO ADJUST” is not set to “0”.	100
		• Make sure LCD display is turned on.	70
No audio is output.		• Make sure the display panel is open. Audio is not output through the Player speakers while the display panel is closed.	31
		• Check the volume setting. If it is at zero, press **VOLUME +** to turn up the volume.	29, 70
		• Make sure headphones are not connected to the headphones jack. Connecting headphones disables the Player’s speakers.	29
Nothing appears on the screen and no audio is output.		• Make sure the Player is in the DVD mode and not the INPUT mode.	47
Image and sound are distorted		• Use a disc that is free of scratches.	9
		• Make sure that the Player’s built-in speakers are not receiving interference from external speakers.	–
INPUT mode	No image from a connected device appears on the screen of the Player.	• Make sure video and audio cables are connected correctly.	30
		• Make sure the Player is in the INPUT mode and not the DVD mode.	101

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Problem		Recommended Action	Page
DVD mode	No image from the Player appears on the screen of a connected device.	• Make sure the channel of the connected TV is set to VIDEO or AV.	31
		• Make sure video and audio cables are connected correctly.	
	The volume of Dolby Digital audio from a DVD is too low.	• Change the “COMPRESSION” setting to “ON”. This setting compensates for the relatively low average volume level of Dolby Digital, which is used to provide the widest possible dynamic range.	56
Battery Pack Operation	The battery pack does not charge.	• Make sure the Player is turned off. The battery pack does not charge when it is installed in the Player while Player power is turned on.	36-38
		• A warm battery takes longer than normal to charge. Wait until the battery cools to normal temperature before trying to charge it.	104, 105
	Power does not turn on.	• Replace the battery pack with a charged one or switch to AC adapter power.	35-39
	Indicator lamp does not light (battery pack does not charge).	• Charging of a battery pack may become disabled (and the Indicator lamp may fail to light) whenever heat from the Player causes the internal temperature of an installed battery pack to rise above certain level. When this happens, remove the battery pack from the Player. Charging will start automatically when battery pack internal temperature drops to a safe level.	–
		• Make sure the temperature of the battery pack is within the allowable temperature range of 10°C to 30°C for charging.	105
		• Check to make sure that the AC adapter DC cord is connected correctly.	35

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Problem		Recommended Action	Page
Battery Pack Operation	Indicator lamp is flashing orange at high speed.	• If the battery pack is installed in the Player, try disconnecting the AC adapter DC cord from the Player and then reconnecting it.	–
		• Try charging another battery pack. The same symptom occurring with another battery pack may indicate a problem with the AC adapter. If the other battery pack charges normally, it can indicate a problem with the first battery pack or that the first battery pack has reached the end of its normal service life.	–
Cannot record to an MD.		• Make sure the connected audio equipment is turned on.	–
		• Make sure the " DIGITAL" setting in "AUDIO SETUP" is set to "D-PCM".	58
When recording from a CD to an MD over an optical digital connection, the CD track numbers and MD track numbers do not match.		• When the space between tracks of some discs is very short, two tracks can be recorded as a single track, which causes a mismatch of track numbers.	–
		• CD and MD track numbers may not match when recording from a CD using programmed play or direct skip.	–

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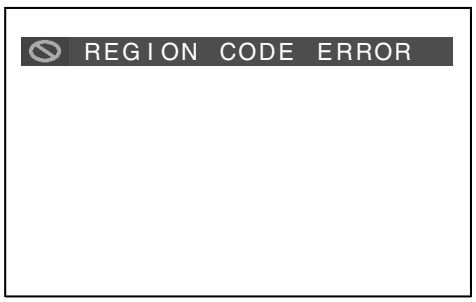
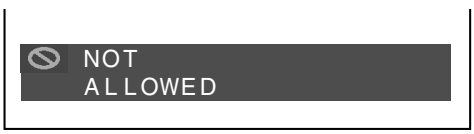
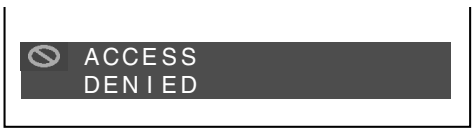
Error Indicators and Warnings

The error indicators and warnings described below appear on the display whenever there is a disc play problem, operational problem, etc.

Display	Meaning
	• The disc you are attempting to play is not compatible with this Player.
	<For Southeast Asia> • The region number of the DVD you are attempting to play is not 3 or ALL. <For Australia and New Zealand> • The region number of the DVD you are attempting to play is not 4 or ALL.
	• You are trying to perform a wrong operation.
	• The disc you are using does not support the operation described in this Operation Manual.

■ Indicator lamp on the Player

Lamp status	Meaning
Lit Orange	• Battery charging is in progress.
Flashing Orange (Fast)	• Possible AC adapter or Player malfunction. • Possible battery pack malfunction or end of battery pack life. Try using a different battery pack.
Lit Green	• Power turned on while the LCD is turned off or while the LCD panel is closed.
Not Lit Orange	• Battery pack is not installed correctly in the Player. • Player is turned on. Charging cannot be performed while the Player is turned on. • AC adapter's DC cord is not connected correctly to the Player.
Flashing Green	• Battery is dead. Use a charged battery pack or switch to AC adapter power. • A button on the Player is pressed while in Hold mode.
Lit Red	• The Player is in the Standby mode.

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Specifications

Product	Portable DVD Video Player
Model	DV-L88W
Signal System	NTSC/PAL
Supported Disc Types	DVD (Southeast Asia: Region Number 3, ALL/ Australia and New Zealand: Region Number 4, ALL), VIDEO CD, Audio CD, CD-R, CD-RW
Video Input/Output	Input/Output Jack: Pin jack × 1 Input/Output Levels: 1Vp-p (75Ω)
S-Video Input/Output	Y Input/Output Level: 1Vp-p (75Ω) C Input/Output Level: 0.286Vp-p (75Ω) Input/Output Jack: S connector × 1
Audio Input/Output	Input/Output Jack: Pin jack × 1 Input/Output Levels: 1.7Vrms (1kHz, 0dB)
Digital Audio Interface	Optical Digital Output: Mini jack (shared with Headphones Output)
Audio Output	0.8W + 0.8W
Headphones Output	Output Jack: Mini jack (stereo) (shared with Optical Digital Output)
Display	Screen Size: 8 inches (99.2 (H) × 176.4 (W) mm) Type: Transmissive TN liquid crystal panel Drive: TFT (thin transistor) active matrix Pixels: 336,960 (234 (H) × 480 (W) × 3) Effective Pixel Rate: 99.99% minimum
Speakers	Two 28mm round speakers
Light Source	Internal (fluorescent)
Video Signal	Horizontal Resolution: 500 lines (DVD) S/N Ratio: 60dB
Audio Signals	Frequency Characteristics: Linear PCM DVD: 4Hz to 22kHz (48kHz sampling)/ 4Hz to 44kHz (96kHz sampling) CD: 4Hz to 20kHz (EIAJ) (MPEG Audio Version 2.0) S/N Ratio: CD: 96dB 1kHz (EIAJ) Dynamic Range: Linear PCM DVD: 96dB (EIAJ) CD: 96dB (EIAJ) Total Harmonic Distortion Ratio: 0.006% maximum (EIAJ)

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Specifications

Power Requirements	AC Adapter: 10V DC Battery Pack: 7.4V DC
Power Consumption	Main Power On: 16.5W average (12.5W without AC Adapter) Main Power Off: 0.1W (without AC Adapter) Standby mode: 1.1W (with AC Adapter)
Dimensions	211 (W) × 174 (D) × 42.3 (H) mm (except for projections)
Weight (approx.)	930g
Operating Temperature	5°C to 35°C
Operating Humidity	80% RH maximum
Storage Temperature	–20°C to 40°C

AC Adapter Specifications

Power Requirements	110 to 240V AC, 50/60Hz
Rated Output	DVD Operation: 10V DC Charging: 10V DC
Dimensions	54 (W) × 98 (D) × 26.5 (H) mm
Weight (approx.)	120g

Battery Pack Specifications (Optional Accessory)

Model	BT-L300S
Type	Lithium-ion type
DC output	7.4V
Capacity	5100mAh
Operating temperature	0°C to 40°C (charging: 10°C to 30°C)
Max. Dimensions	59 (W) × 142.5 (D) × 20.5 (H) mm without protruding parts
Weight (approx.)	285g

Specifications are subject to change without notice.
Weight and dimensions are approximate.

Digital Output (Linear PCM)

- The digital output format used in this Player is Linear PCM audio sampled at 44.1kHz or 48kHz. Linear PCM sound for DVD discs sampled at 96kHz cannot be output digitally. Check the disc jacket for information on the audio sampling used.

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Glossary

Region number Number identifying a geographic region of compatibility for a DVD.

<For Southeast Asia>

The list below shows the countries covered by region number **3**.

Common Names	Names of Nations and Areas
Brunei Darussalam	Brunei Darussalam
Cambodia	Kingdom of Cambodia
Indonesia	Republic of Indonesia
Korea	Republic of Korea
Laos	Lao People's Democratic Republic
Malaysia	Malaysia
Myanmar	Union of Myanmar
Philippines	Republic of the Philippines
Singapore	Republic of Singapore
Thailand	Kingdom of Thailand
Viet Nam	Socialist Republic of Viet Nam
East Timor	*East Timor
Hong Kong	*Hong Kong
Macau	*Macau
Taiwan	*Taiwan

*Represents area name

<For Australia and New Zealand>

The list below shows the countries covered by region number **4**.

Common Names	Common Names	Common Names
Antigua and Barbuda	Marshall Islands	Aruba
Argentina	Mexico	British Virgin Islands
Australia	Micronesia	Cayman Islands
Bahamas	Nauru	Christmas Island
Barbados	New Zealand	Cocos Islands
Belize	Nicaragua	Cook Islands
Bolivia	Palau	Falkland Islands
Brazil	Panama	French Guiana
Chile	Papua New Guinea	French Polynesia
Colombia	Paraguay	Guadeloupe
Costa Rica	Peru	Guam
Cuba	Saint Christopher and Nevis	Martinique
Dominica	Saint Lucia	Montserrat
Dominican Republic	Saint Vincent and the Grenadines	Netherlands Antilles
Ecuador	Samoa	New Caledonia
El Salvador	Solomon Islands	Niue
Fiji	Suriname	Norfolk Island
Grenada	Tonga	Northern Mariana Islands
Guatemala	Trinidad and Tobago	Pitcairn
Guyana	Tuvalu	Tokelau
Haiti	Uruguay	Turks and Caicos Islands
Honduras	Vanuatu	Wallis and Futuna Islands
Jamaica	Venezuela	
Kiribati	Anguilla	

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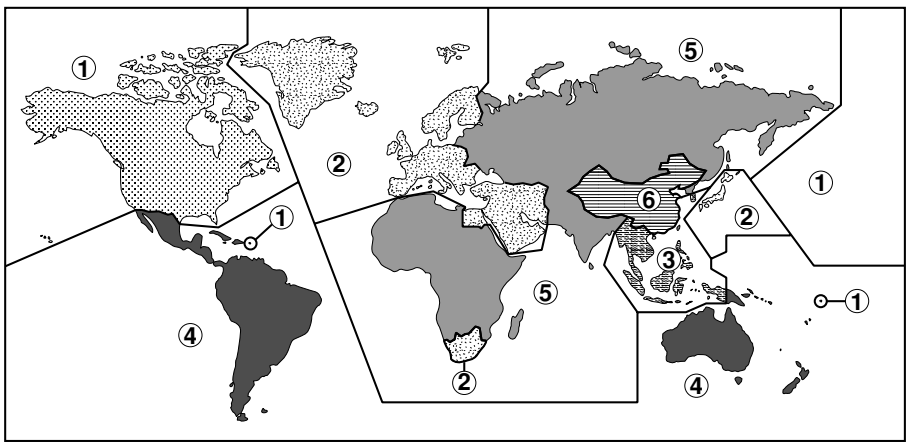
The world map for all region numbers



Pickup — Laser device that reads the data from a disc for playback.

Title — When a DVD contains multiple movies, each movie is called a “title”.

Chapter — A section inside a title.

Track — One tune on an Audio CD.

DVD mode — The Player mode for playing DVDs.

INPUT mode — The Player mode for playing the audio and video from a connected device.

Letter box 4:3 LB — Screen size that cuts off the top and bottom of the image to allow playing of Wide (16:9) software on a connected 4:3 TV.

Pan scan 4:3 PS — Screen size that cuts off the sides of the image to allow playing of Wide (16:9) software on a connected 4:3 TV.

Dolby Digital (5.1 channel) — A sound system developed by Dolby Laboratories, Inc. that gives movie theater ambience to audio output when the Player is connected to a processor or amplifier.

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DTS	Theater audio system by Digital Theater Systems, Inc. Six audio channels are used to create accurate sound field positioning and realistic sound.
Linear PCM audio	Audio signal recording system used for Audio CDs.
Parental level	Setting that makes it possible to control the types of scenes that can be played by the Player. This setting helps to keep children from viewing adult material.
Compression (Dolby Digital output level)	Setting that increases the average volume of Dolby Digital audio when playing a DVD.
Screen size	This setting makes it possible to fit an image onto the screen by cutting off the top and bottom, cutting off the sides, or by stretching the image. You can set the screen size by selecting SIDE BAR, STRETCH, ZOOM or SMART STRETCH.
View angle	Some DVDs have recordings from multiple angles, so you can select a view angle when playing the disc.
VIRTUAL DOLBY (QSURROUND)	Provides rich surround sound by downmixing Dolby Digital 5.1 channel and Dolby Surround (Pro Logic) to 2-channel audio.
DIGITAL GAMMA	Corrects for gradations in dark areas of images to make images clearer.
DIGITAL SUPER PICTURE	Enhances the fine detail of the image and outlines of the objects.
Zoom	This function lets you zoom in and enlarge a specific part of an image.

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Glossary

Display colour settings	Settings for controlling the backlight brightness, colour brightness, tint, and contrast of image colours.
Backlight	Built-in fluorescent light that supplies screen illumination.
Title menu	This is a menu displayed by some DVDs for selection of chapters and subtitle set. The title menu is also called a “top menu”.
Playback control (PBC)	This VIDEO CD system allows selection of scenes or information from an on-screen menu.

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